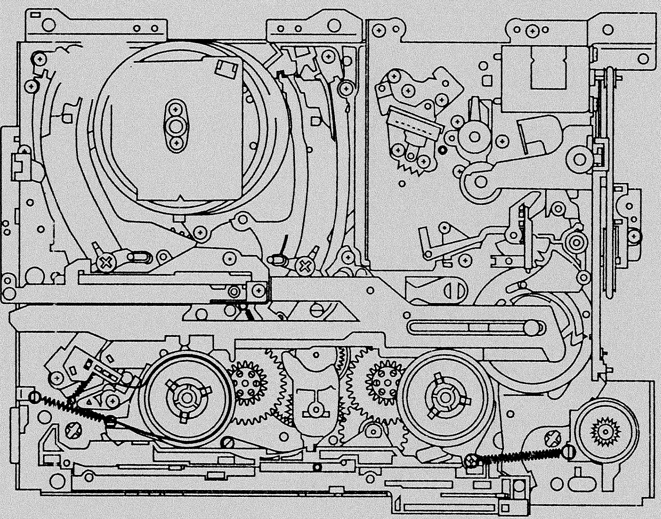
JVC

SERVICE MANUAL

MECHANISM ASSEMBLY

PMC0011A-E/PMC0011A-M
PMC0013A-E/PMC0013A-E
PMC0014A-E/PMC0014A-M
PMC0015A-M

TYPE 80L



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No. 82595
May 1997

SECTION 1
ADJUSTMENT

1.1 PREPARATION

1.1.1 Precautions

(1) Disconnect VCR from AC power before soldering.
(2) Avoid imparting stress to wires when disengaging connectors.
(3) Determine and correct the cause of difficulty before proceeding to adjustments.Do not disturb settings unnecessarily.
(4) Use care not to damage tabs,claws,etc during repairs.
(5) Install the cassette housing assembly only when the mechanism is in the MECHANISM ASSEMBLING MODE position.
(6) When installing the Front panel assembly,be sure to engage the housing door with the door opener of the cassette housing assembly.
If this is omitted,the cassette door will not open at Eject and the cassette can not be removed.

1.1.2 Check without cassette housing assembly.

Mechanism operations can be observed easily by removing the cassette housing assembly. Use the MECHANISM SERVICE MODE.

1.1.3 Manual removal of loaded tape

When the deck enters the emergency mode with cassette tape loaded and it can not be ejected by pressing the EJECT button,take out of the cassette tape according to the following procedure.

(1) Disconnect the power cord from AC outlet then take out the Top cover and Front panel assembly.
(2) Turn the loading motor on the Main deck assembly by hand in the unloading direction to where the pole base assembly (supply and take-up) is positioned below the cassette tape.At that time, pay careful attention to the tape not to get soiled with grease.
(3) Take out 4 screws of the cassette housing assembly.
(4) Remove the cassette housing with slackened tape and guard panel of cassette.
(5) Wind up the tape by turning the reel hub(either supply or take-up side for convenience) from the bottom of the cassette,and remove the cassette tape.

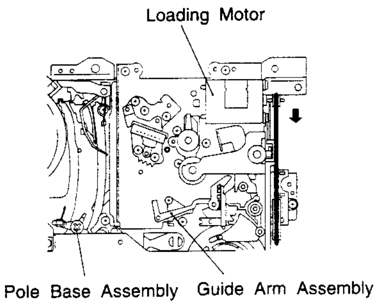


Fig. 1-1-1

1.1.4 Test Equipment

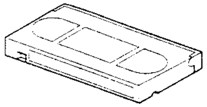
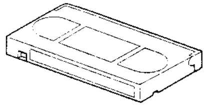
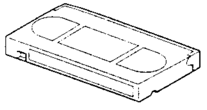
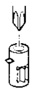
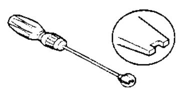
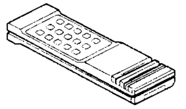
Alignment tape (SP) NTSC:MHP PAL:MHPE	Alignment tape (EP,LP) NTSC(EP):MHP-L PAL(LP):MHPE-L	Back tension cassette gauge PUJ48076-2	A/C head positioning tool PTU94010
			
Roller driver PTU94002	Presetting unit PTU94008	Grease KYODO-SH-P	
			

Table 1-1-1 Test equipment

1.2 MAIN MECHANISM PARTS

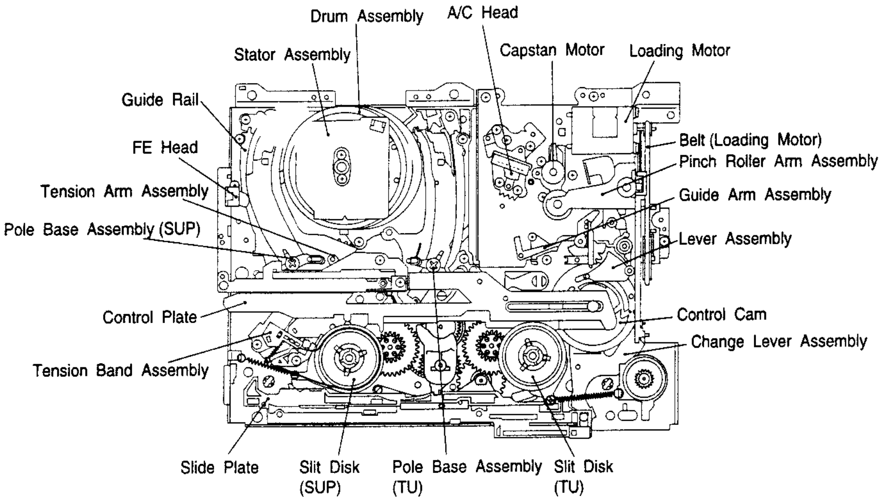

Drum Assembly
A/C Head
Stator Assembly
Capstan Motor
Loading Motor
Guide Rail
FE Head
Tension Arm Assembly
Pole Base Assembly (SUP)
Belt (Loading Motor)
Pinch Roller Arm Assembly
Guide Arm Assembly
Lever Assembly
Control Plate
Control Cam
Change Lever Assembly
Tension Band Assembly
Slide Plate
Slit Disk (SUP)
Pole Base Assembly (TU)
Slit Disk (TU)

Fig. 1-2-1 Top view of main deck

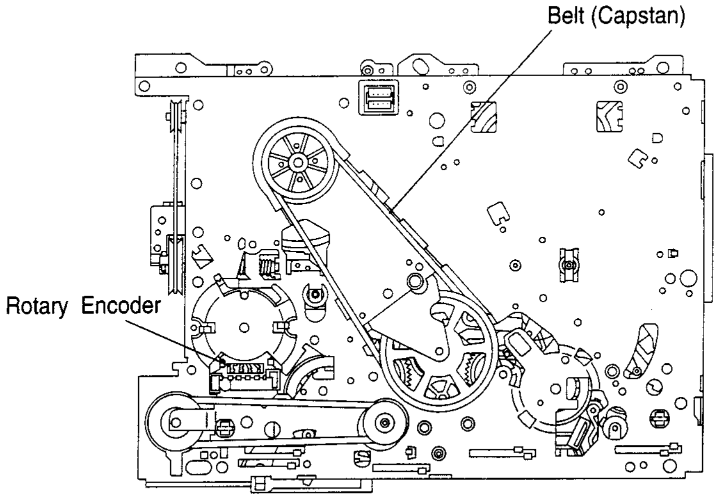

Belt (Capstan)
Rotary Encoder

Fig. 1-2-2 Bottom view of main deck

1.2.1 Cleaning

Periodic cleaning of the tape transport system is desirable,but usually not feasible in practice.Therefore,perform cleaning when a set is brought in for repairs or maintenance. Contamination of the video heads,tape guides and brush can detract from playback picture quality and in extreme cases,even damage the tape.For cleaning,use a finemesh cotton cloth(about the texture of a white dress-shirt) moistened in alcohol. It is recommended to also clean thetape tension posts and capstan.

- To clean the video heads,press the moistened cloth gently against the upper drum with fingertip and turn the drum by hand.
- Do not use a vertical stroke,as this may damage the heads.

1.2.2 Lubrication

Oil and grease do not normally require periodic replenishing. Apply only when replacing lubricated parts(also clean and replace lubrication of mating parts if soiled). For parts and points to apply oil and grease, refer to the exploded views of the mechanism assembly. Before oiling,clean with alcohol. Apply one or two drops of oil. Avoid excess oil.

1. Table 1-2-1 indicates the oil and grease used in this set. Use these or recommended locally available equivalents.

Category	Part No.
Oil	COSMO-HV56
Grease	KYODO-SH-P

Table 1-2-1

2. Grease is not required for a replacement cassette housing assembly,as this has been applied at the factory.

NOTE : *Stir grease that has been stored for an extended period.*

1.3 INSPECTION AND MAINTENANCE

This product employs rotary and moving parts which wear out in the course of usage.Periodic inspection, cleaning, lubrication and maintenance are therefore important for ensuring maximum performance. Worn parts must also be replaced as and when required.

1.3.1 Suggested servicing schedule for main components

The following table indicates the suggested period for such service measures as cleaning,lubrication and replacement. In practice, the indicated periods will vary widely according to environmental and usage conditions.However, the indicated components should be inspected when a set is brought for service and the maintenance work performed if necessary. Also note that rubber parts may deform in time,even if the set is not used.

System	Parts Name	Operation Hours	
		~1000H	~2000H
Tape transport	Upper drum assembly	★○	○
	A/C head	★○	★○
	Lower drum motor assembly	★	★○
	Pinch roller arm assembly	★	★
	Full erase head	★	★
	Tension arm assembly	★	★
	Guide arm assembly	★	★
Drive	Capstan motor		○
	Belt (Capstan)	○	○
	Belt (Loading motor)		○
	Loading motor		○
	Slit disk (supply, take-up)		○
	Clutch unit (supply, take-up)		○
	Worm gear assembly		○
	Control plate		○
	Slide plate		○
Other	Brush assembly	★○	★○
	Tension band assembly	○	○
	Rotary encoder		○

★ : Cleaning
○ : Inspection or Replacement if necessary

Table 1-3-1

1.4 DISASSEMBLY/ASSEMBLY PROCEDURE OF MECHANISM

1.4.1 Precaution before disassembling mechanism

This mechanism has an exclusive operation mode provided for disassembling and installation of the mechanism (MECHANISM ASSEMBLING MODE), and it is suggested to set the mechanism to this mode before disassembly and installation.The exclusive mechanism operation mode is not generally used and becomes available by manual setting only. Then this procedure starts with the condition that the cabinet parts,cassette housing assembly and PRE/REC board assembly have been removed.

1.4.2 How to set the exclusive mechanism operation mode (MECHANISM ASSEMBLING MODE)

(1) Turn the loading motor belt by hand.
(2) Confirm that the hole of the control cam are aligned to the deck hole as shown in Fig.1-4-1.

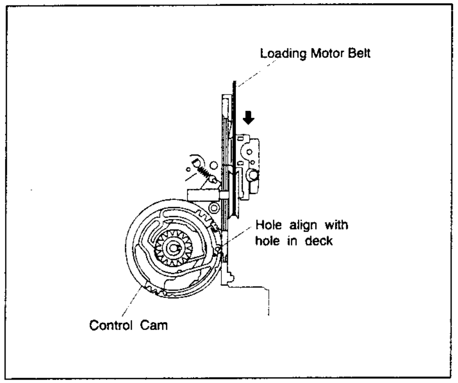


Fig. 1-4-1

1.5 MAIN PARTS REPLACEMENT OF MECHANISM

1.5.1 Pinch Roller Arm Assembly

(1) Remove the slit washer.
(2) Tilt up the pinch roller assembly in direction of arrow.

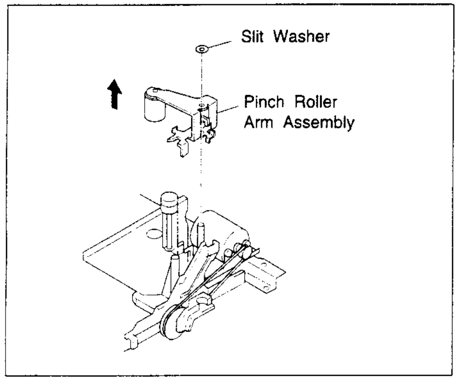


Fig.1-5-1

1.5.2 A/C Head

1. Removal

(1) Take out 2 screws (A).
(2) Remove the A/C head with head base.

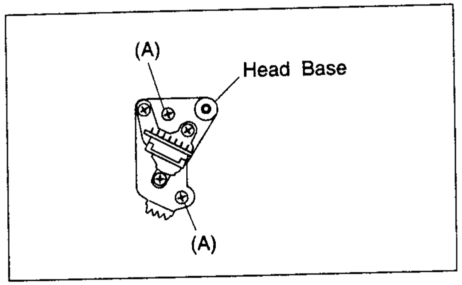


Fig.1-5-2

(3) When replacing the A/C head only,remove 3 screws (B), use care not to misplace the 3 springs.

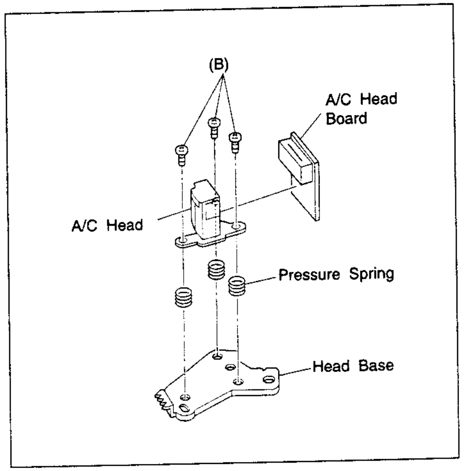
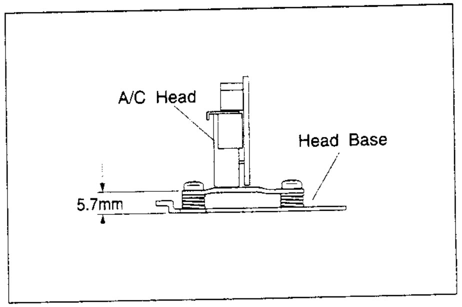


Fig.1-5-3

2. Installation

(1) Temporarily set A/C head height as indicated in Fig. 1-5-4.



NOTES:

- *It is very important to correctly adjust the control pulse and audio signal in addition to the mechanical tape path.*
- *Perform interchangeability adjustments after electrical adjustments.*

1.5.3 Pinch Plate

1. Removal

(1) Disengage 2 claws, then remove the pinch plate.

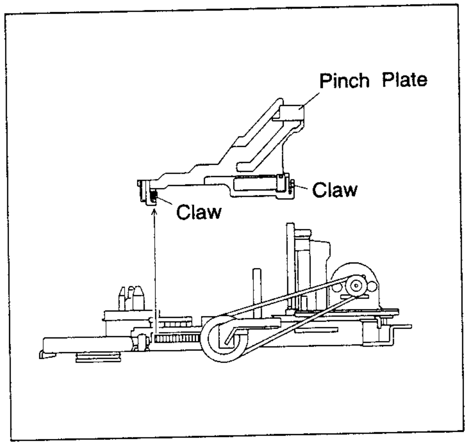


Fig.1-5-5

2. Installation

(1) When installing pinch plate,align rack of pinch plate and triangle mark of control cam as indicated in Fig.1-5-6.

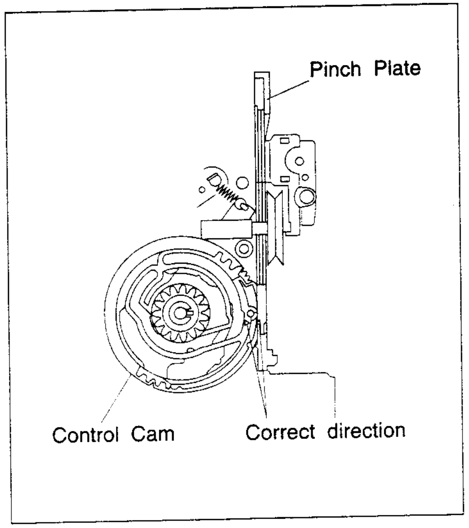


Fig. 1-5-6

1.5.4 Loading Motor

(1) Disengage the belt between loading motor and worm gear.
(2) Take out 2 screws (A) then remove the loading motor.

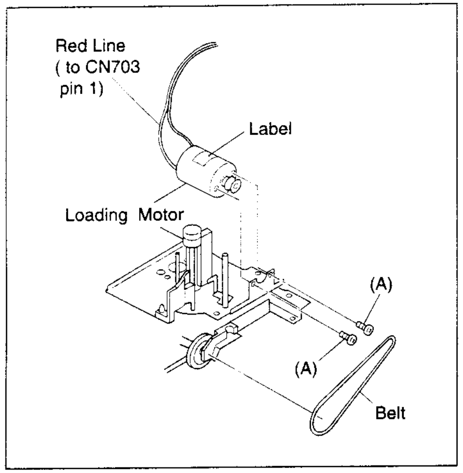

Red Line
(to CN703
pin 1)
Label
Loading Motor
(A)
(A)
Belt

Fig.1-5-7

1.5.5 Lever Assmebly,Sub Deck Assembly,Capstan Motor

(1) Take out 1 slit washer,then remove the lever assembly.
(2) Disengage the belt(capstan motor) from bottom of mechanism assembly first as indicated in Fig.1-5-10.
(3) Take out 2 screws (A), 1 screw (B) and remove the sub deck assembly as indicated in Fig.1-5-8.
(4) Take out 3 screws (C) and remove the capstan motor from the sub deck assembly as indicated in Fig.1-5-9.

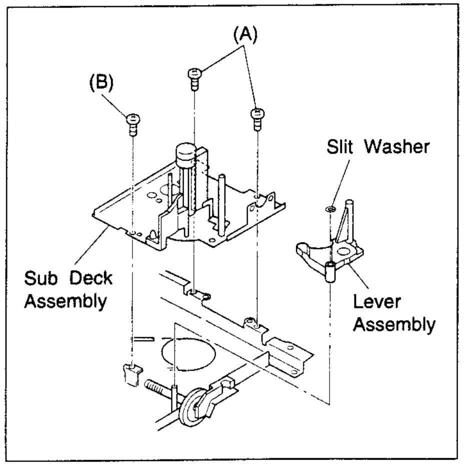

(A)
(B)
Slit Washer
Sub Deck
Assembly
Lever
Assembly

Fig.1-5-8

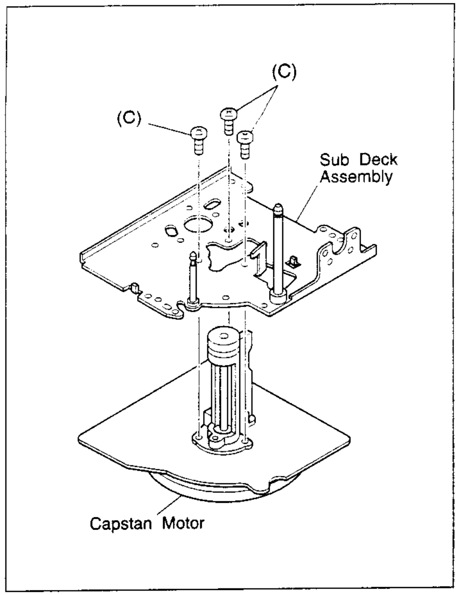

(C)
(C)
Sub Deck
Assembly
Capstan Motor

Fig.1-5-9

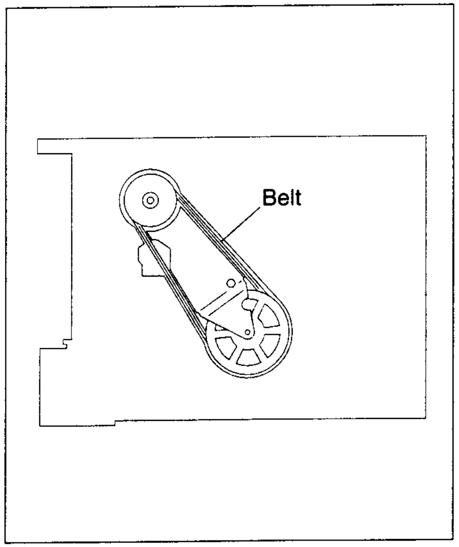


Fig.1-5-10

1.5.6 Control Bracket

(1) Take out 1 screw (A) and 1 screw (B).
(2) Remove the control bracket.

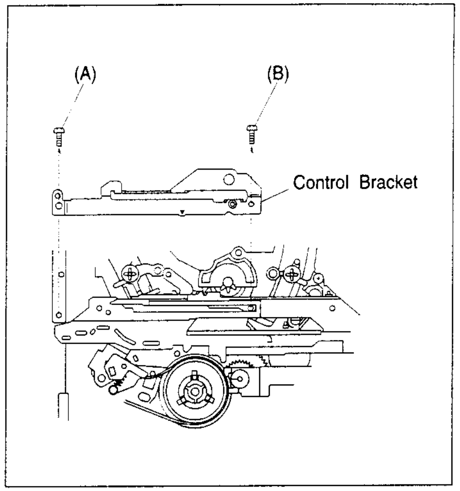

(A)
(B)
Control Bracket

Fig.1-5-11

1.5.7 Slit disk (take-up)

(1) Take out 1 slit washer.
(2) Remove the slite disk (take-up).

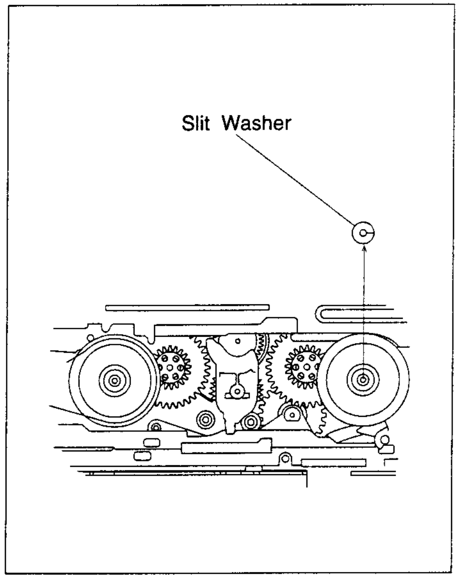

Slit Washer

Fig.1-5-12

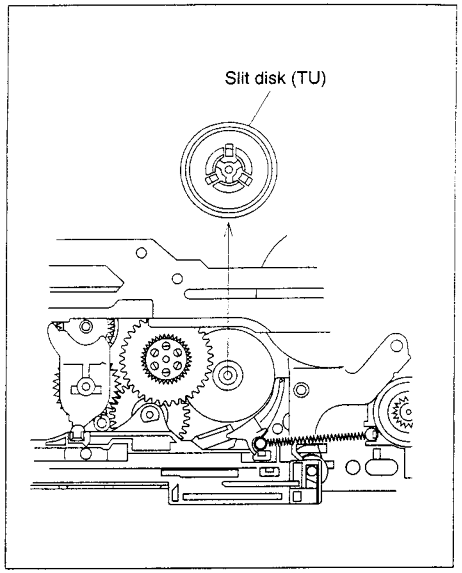

Slit disk (TU)

Fig.1-5-13

1.5.8 Control Plate

(1) Take out 1 slit washer.
(2) Disengage 2 claws and remove the control plate.

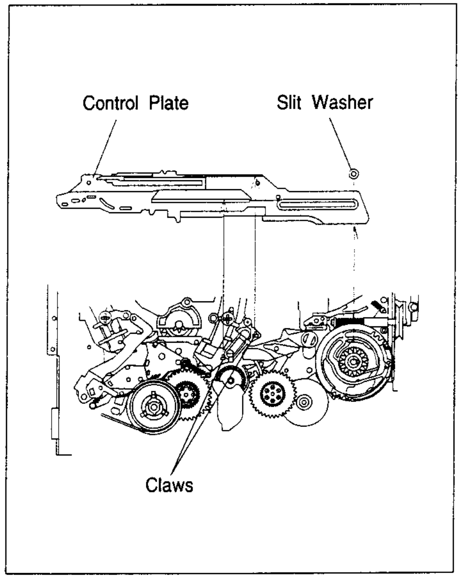

Control Plate
Slit Washer
Claws

Fig.1-5-14

1.5.9 Sub Brake(take-up),Control Cam

(1) Disengage 1 spring (a) and 1 claw then remove the sub brake (take-up).

(2) Disengage 1 claw and remove the control cam.

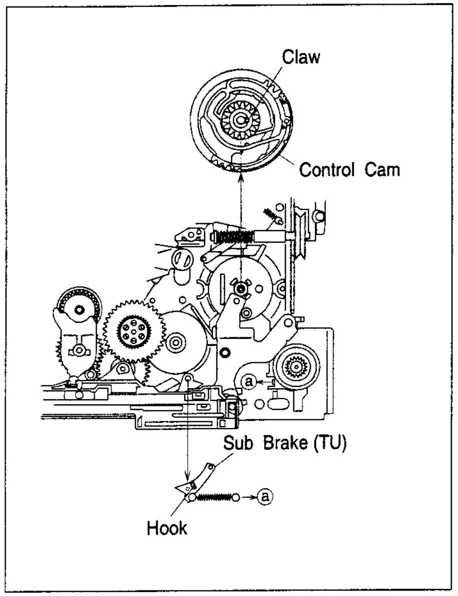

Claw
Control Cam
ⓐ
Sub Brake (TU)
ⓐ
Hook

Fig.1-5-15

1.5.10 Slide Plate

(1) Disengage 7 claws from bottom of the mechanism assembly and remove the slide plate.

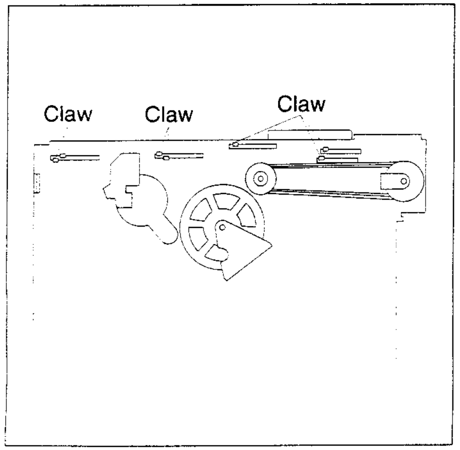

Claw
Claw
Claw

Fig. 1-5-16

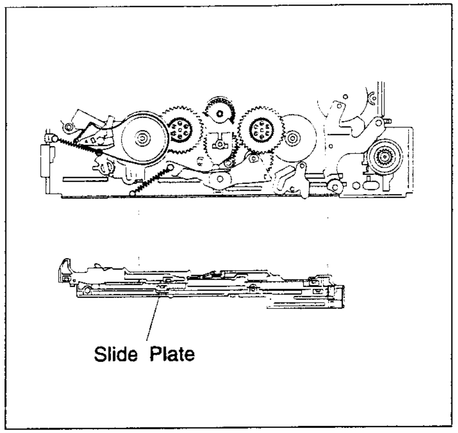

Slide Plate

Fig. 1-5-17

1.5.11 Change Lever,Rotary Encoder

(1) Remove the change lever.

(2) Disengage 2 claws and remove the rotary encoder.

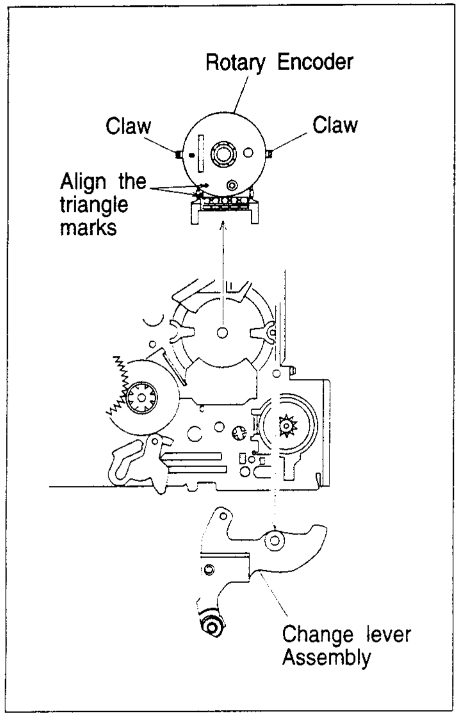

Rotary Encoder
Claw
Claw
Align the triangle marks
Change lever Assembly

Fig. 1-5-18

1.5.12 Sub Brake (supply),Tension Band Assembly, Tension Arm Assembly, Take-up Lever Assembly,Slit Disk(supply)

(1) Disengage 1 spring ⓐ.

(2) Disengage 1 claw and remove the sub brake (supply).

(3) Take out 1 spring ⓒ and slit washer then disengage 1 claw.

(4) Remove the tension arm assembly with tension band assembly.

(5) Remove the take-up lever assembly.

(6) Take out 1 slit washer then remove the slit disk(supply).

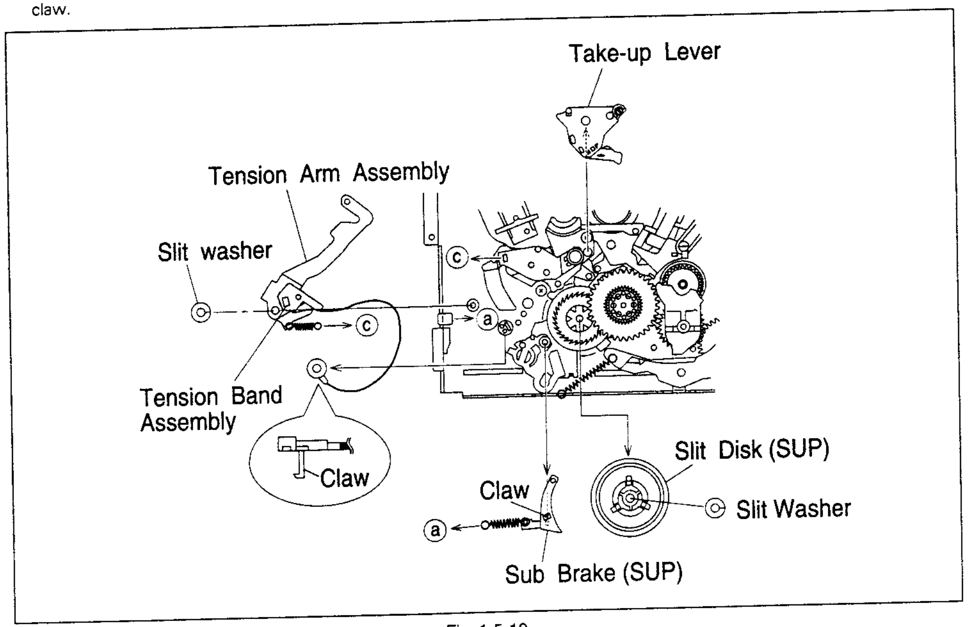

Take-up Lever
Tension Arm Assembly
Slit washer
ⓒ
ⓒ
ⓐ
Tension Band Assembly
Claw
Slit Disk (SUP)
Claw
Slit Washer
ⓐ
Sub Brake (SUP)

Fig. 1-5-19

1.5.13 Take-up Head,Tension Arm Lever

(1) Remove the take-up head and tension arm lever.

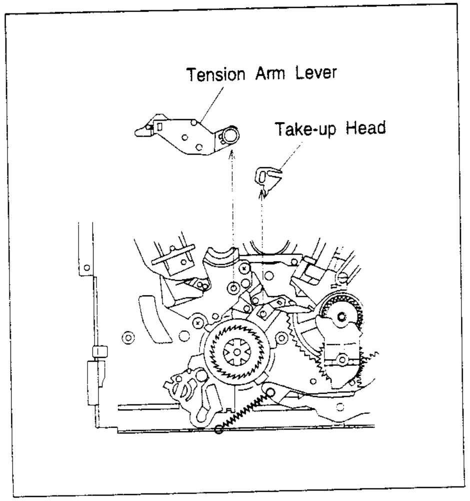

Tension Arm Lever
Take-up Head

Fig.1-5-20

1.5.14 Guide Rail

(1) Take out 5 screws Ⓐ and 1 screw Ⓑ.

(2) Disengage 4 claws and remove the guide rail.

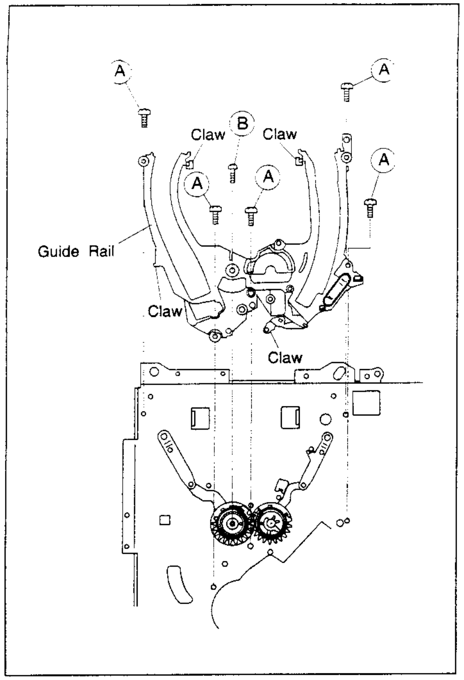

A
A
Claw
B
Claw
A
A
A
Guide Rail
Claw
Claw

Fig. 1-5-21

1.5.15 Stator Assembly

(1) Take out 2 screws (A).

(2) Raise the stator assembly in the direction indicated by the arrow to remove it.

(3) Remove the flat cable.

(4) To reinstall, first secure the flat cable, then insert 2 screws (A).

(5) After reinstalling, be sure to perform PB switching point adjustment.

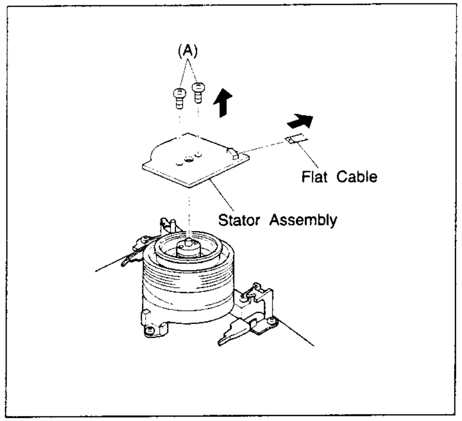

(A)
Flat Cable
Stator Assembly

Fig. 1-5-22

NOTE : *When refitting the connector, check that the flat wire is inserted correctly.*

1.5.16 Rotor Assembly

(1) Remove the stator Assembly.

(2) Take out 2 screws (B) and remove the rotor Assembly.

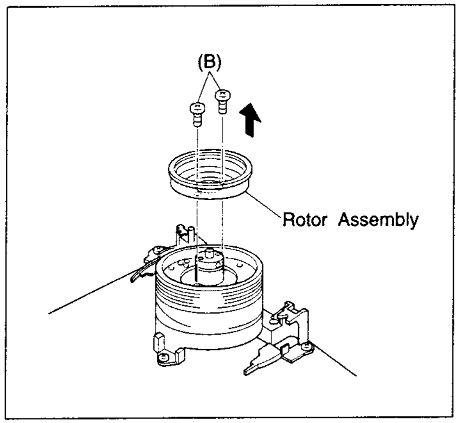

(B)
Rotor Assembly

Fig.1-5-23

(3) Align the upper drum assembly and rotor assembly phase as indicated in Fig.1-5-24.

(4) Overlap holes (a) of the upper drum assembly with holes (b) of the rotor assembly and secure with 2 screws (B) as indicated in Fig.1-5-23.

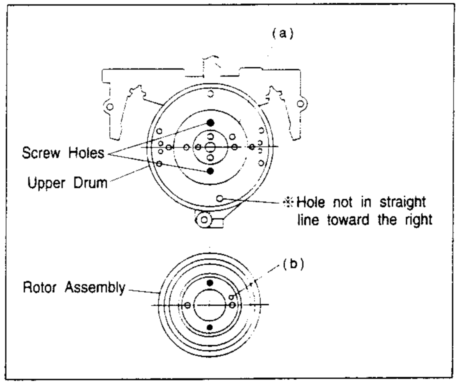

(a)
Screw Holes
Upper Drum
※Hole not in straight line toward the right
(b)
Rotor Assembly

Fig. 1-5-24

1.5.17 Upper Drum Assembly

1. Removal

(1) Remove the stator assembly and rotor assembly.

(2) Use a 1.5 mm hexagonal wrench to loosen the collar assembly screw and remove the collar assembly with brush, and remove the cap.

(3) Remove the upper drum assembly and use tweezers to remove the washer.

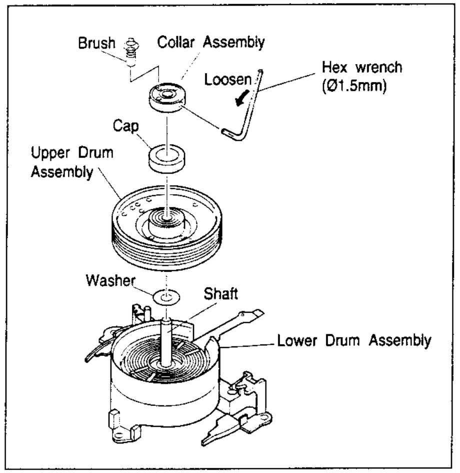

Brush
Collar Assembly
Loosen
Hex wrench (Ø1.5mm)
Cap
Upper Drum Assembly
Washer
Shaft
Lower Drum Assembly

Fig. 1-5-25

NOTE : *If the Brush is replaced, do not apply the grease to the contacts.*

2. Installation

(1) Use an air brush to clean the lower drum assembly and the coil section of the new upper drum assembly.

(2) Set a new washer on the drum shaft as indicated in Fig.1-5-25.

NOTE : *Be sure to use the new washer when replace the upper drum assembly.*

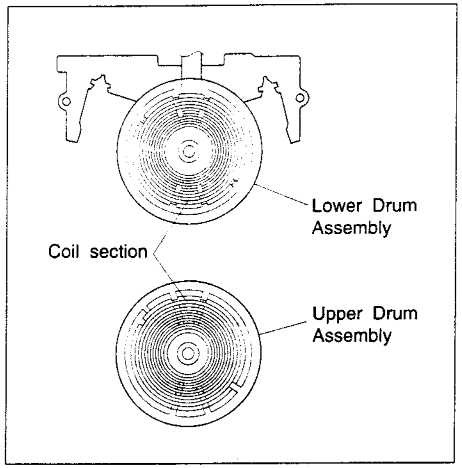

Lower Drum Assembly
Coil section
Upper Drum Assembly

Fig.1-5-26

(3) Note the top and bottom of the collar assembly and determine the position as indicated in Fig.1-5-27.

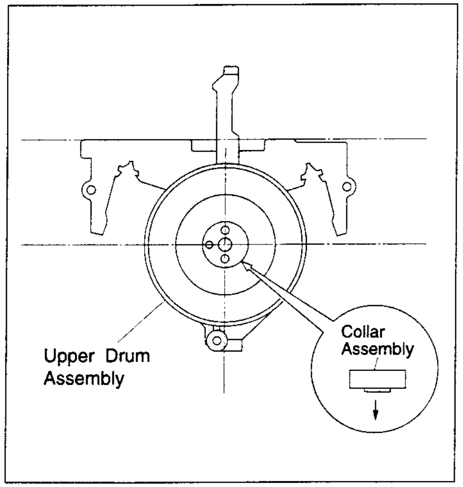

Collar Assembly
Upper Drum Assembly

Fig.1-5-27

(4) While pressing the collar assembly evenly from above with your fingertips,secure the hexagonal screw.

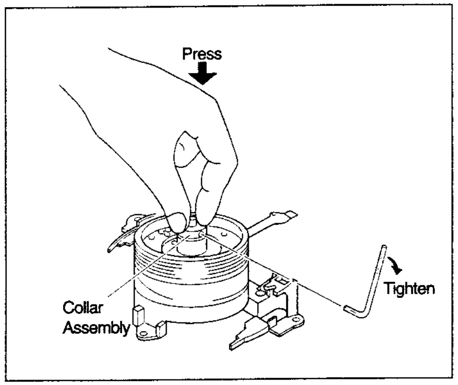

Press
Tighten
Collar Assembly

Fig.1-5-28

(5) After installing,gently turn the upper drum by hand and confirm normal rotation.
(6) Install the rotor assembly and stator assembly.
(7) Clean the upper and lower drum assemblies and perform the following adjustments;
- PB switching point adjustment
- Slow tracking preset adjustment
- Interchangeability adjustment (be sure to check EP or LP mode)

1.6 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

1.6.1 Precaution

The rotary encoder and syscon circuit are closely interrelated.Therefore,the rotary encoder and control cam conection determines the operations of mechanical parts such as plates,gears,brakes,etc.Correct positioning of these parts is essential for smooth tape loading and mechanical operations.

1.6.2 Loadidg Arm Assemby (supply,take-up)

(1) Install the supply loading arm assembly and the take-up loading arm assembly so that their positioning markings on the respective gear face each other and the holes of their arms correspond to the holes on the main deck assembly respectively.
(2) After setting the guide rails,engage the pole base assemblies with the tip of the loading arms respectively. Then,enter the mechanism into the unloading mode to return the pole base assemblies to the front position.
(3) Reassemble the peripheral parts of the guide rail to its original position.

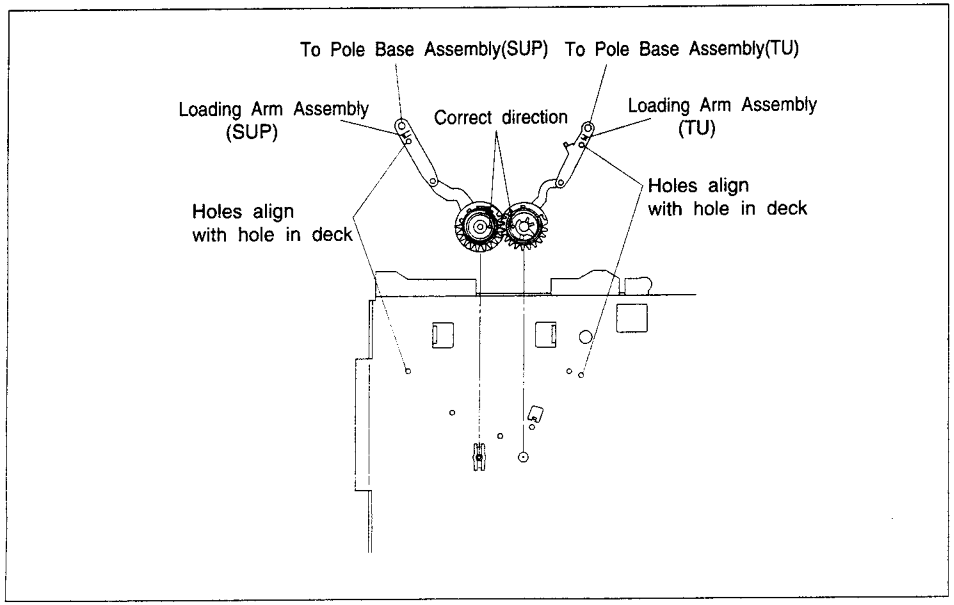

To Pole Base Assembly(SUP)
To Pole Base Assembly(TU)
Loading Arm Assembly (SUP)
Correct direction
Loading Arm Assembly (TU)
Holes align with hole in deck
Holes align with hole in deck

Fig. 1-6-1

1.6.3 Rotary Encoder,Change Lever,Control Cam

(1) When reinstalling the rotary encoder,adjust its position so as to fit the triangle marks each other and push it deep untill it is locked by the pawls.
(2) When reinstalling the change lever,set it so as to make its positioning hole correspond to the hole of the main deck assembly.
(3) When re-engaging the control cam,lower the capstan brake assembly while setting it so as to make its positioning hole correspond to the hole of the main deck assembly.

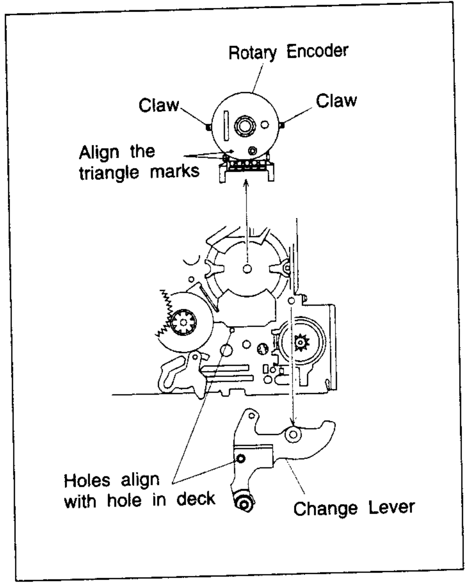

Rotary Encoder
Claw
Claw
Align the triangle marks
Holes align with hole in deck
Change Lever

Fig. 1-6-2

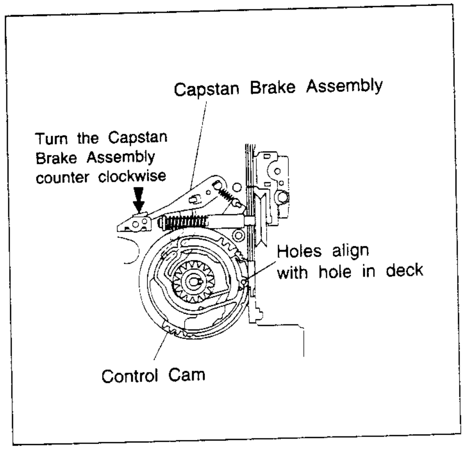

Capstan Brake Assembly
Turn the Capstan Brake Assembly counter clockwise
Holes align with hole in deck
Control Cam

Fig. 1-6-3

1.6.4 Slide Plate

(1) Lower both the main brake assemblies (supply and take-up) untill they touch the edge of the main deck assembly while reinstalling the slide plate so as to make the respective positioning holes of the main brake assemblies correspond to the holes on the main deck assembly.

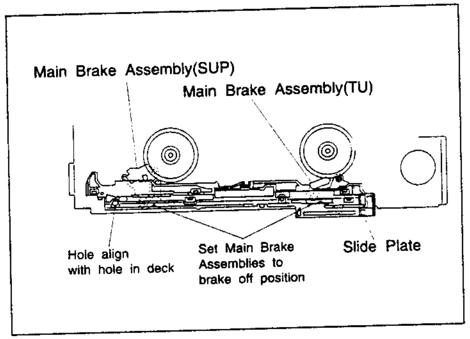

Main Brake Assembly(SUP)
Main Brake Assembly(TU)
Hole align with hole in deck
Set Main Brake Assemblies to brake off position
Slide Plate

Fig.1-6-4

1.6.5 Control Plate

(1) Reinstall the control plate so as to set the two positioning holes of it on the holes on the main deck assembly respectively and to set the positioning hole of the take-up lever on the hole of the main deck at the same time. When adjusting the hole position of the take-up lever,use a pair of tweezers to hold and move it since it is pulled by a tension spring.
(2) After reinstalling the control plate,fix it with the slit washer,control bracket-1 and -2.

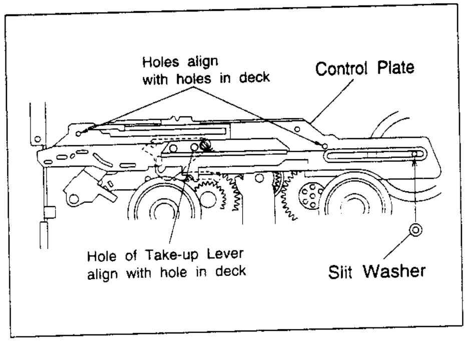

Holes align with holes in deck
Control Plate
Hole of Take-up Lever align with hole in deck
Slit Washer

Fig. 1-6-5

1.7 TAPE INTERCHANGEABILITY ADJUSTMENT

NOTE :
- *This adjustment is extremely important. However, it is normally not required during routine service. Perform only after replacing major components(A/C head,upper/lower drum assembly,pole base assembly,etc).*
- *Before using costly alignment tape,use a spare tape and confirm correct operation of the tape transport.*

1.7.1 Tape pattern

(1) Connect the oscilloscope to PB FM on the Main board.Use D.FF on the Main board as a trigger.
(2) Playback the SP stairstep portion of the alignment tape [MHP, MHPE]. Confirm that the FM waveform appears as indicated in Fig.1-7-1.
(3) Set the manual tracking position by pressing the /// button on the remote controller or TV PROG "-" and "+" buttons simultaneously.
(4) Operate the tracking adjustment (press the TV PROG buttons during playback) and set for maximum playback FM waveform.
(5) By operating the TV PROG button,vary the FM waveform from maximum to minimum and vice versa to confirm that the waveform varies nearly in a flat shape as shown in Fig.1-7-1.
(6) When the FM waveform does not remain flat during this process,first slightly loosen the set screw located at the bottom of the guide rollers.Using the guide roller adjustment tool (Roller driver) ,adjust the supply and take-up guide rollers (refer to Fig.1-7-2) to obtain the correct waveform as indicated in Fig.1-7-3.
(7) By pressing the TV PROG buttons several times,vary the FM waveform output from maximum to minimum (and vice versa) gradually,and confirm that the variation proceeds in flat shape, as shown in Fig.1-7-3.
(8) Next playback the EP or LP stairstep portion of the alignment tape [MHP-L, MHPE-L] and adjust the tracking control from maximum to minimum the FM waveform,confirm that FM waveform variation is always flat.
(9) Record the signal and play it back in both of the SP and EP, LP mode,confirm that the FM waveform is flat in both mode.
(10) After adjustments,tighten the set screw of the guide rollers.
(11) Confirm that the tape wrinking does not occur at the roller upper or lower limits as indicated in Fig.1-7-4.

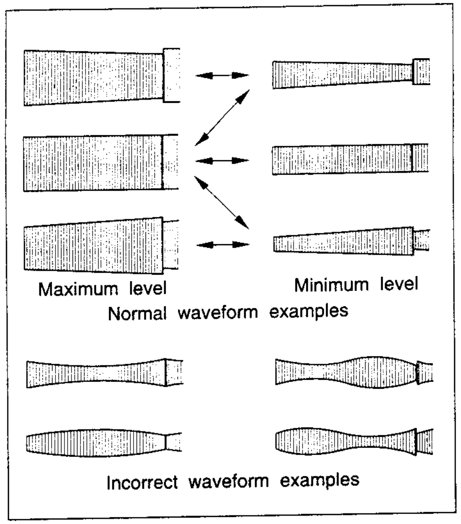

Maximum level
Minimum level
Normal waveform examples
Incorrect waveform examples

Fig. 1-7-1

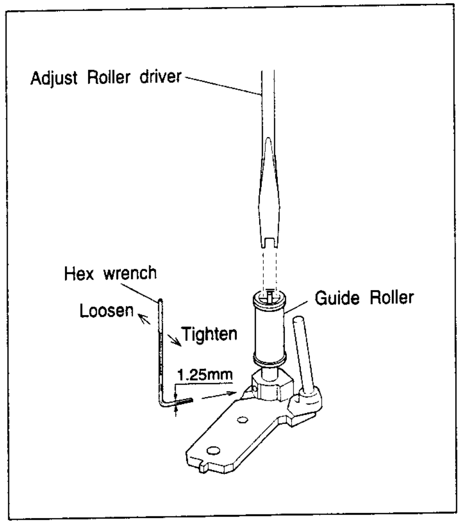

Adjust Roller driver
Hex wrench
Loosen
Tighten
Guide Roller
1.25mm

Fig. 1-7-2

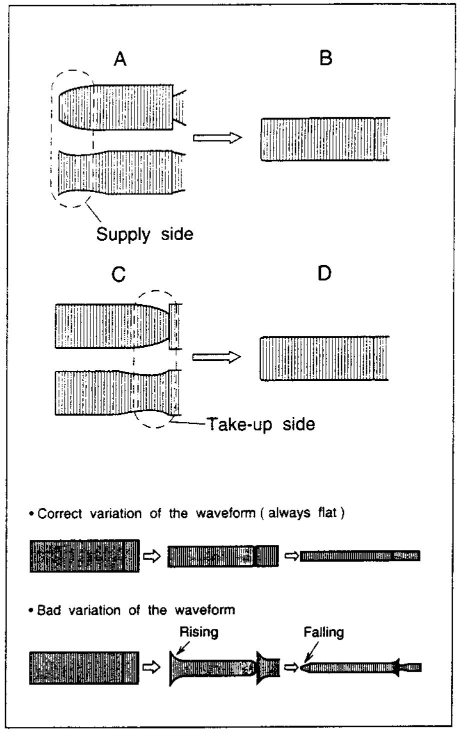

A
B
Supply side
C
D
Take-up side
• Correct variation of the waveform (always flat)
• Bad variation of the waveform
Rising
Falling

Fig. 1-7-3

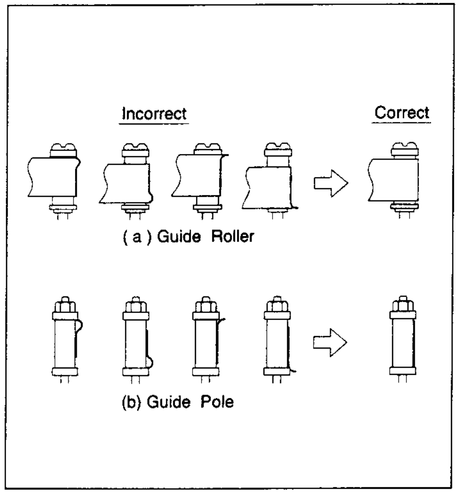

Incorrect
Correct
(a) Guide Roller
(b) Guide Pole

Fig. 1-7-4

1.7.2 A/C head height & azimuth

NOTE :
- *Temporarily set A/C head height as indicated in Fig. 1-5-4.*
- *Use spare tape to check the transport and confirm the tape is not scratched or damaged.*

1. Tilt

(1) Use spare tape and set for playback.
(2) Turn screw (3) clockwise to where the tape curls just slightly at the TU guide pole bottom flange as shown in Fig.1-7-5.
(3) Then slowly turn screw (3) counterclockwise to where the curling ceases.

2. Height

(1) Connect CH-1 of a dual trace oscilloscope to Audio Out.
(2) Connect CH-2 to CTL PULSE of the Main board assembly and use the ALT mode.
(3) Playback the SP stairstep portion of the alignment tape [MHP, MHPE].
(4) Adjust screws (1),(2) and (3) for maximum audio output and control pulse level.

3. Azimuth

(1) Connect the oscilloscope to Audio Out.
(2) Playback the SP stairstep portion of the alignment tape [MHP, MHPE].
(3) Adjust screw (2) so that the audio output is both maximum and with minimum fluctuation.

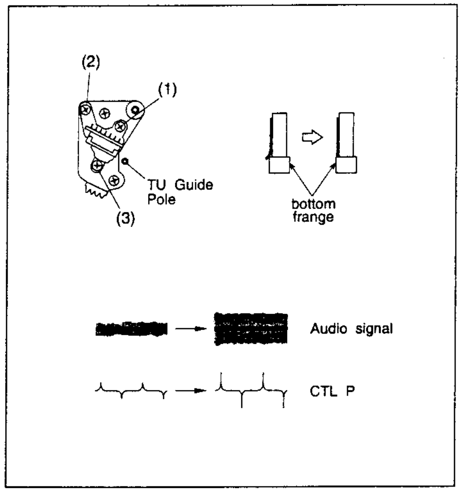

(2)
(1)
TU Guide Pole
(3)
bottom frange
Audio signal
CTL P

Fig. 1-7-5

1.7.3 A/C head phase(X-value)

(1) Connect the oscilloscope to PB FM on the MAIN board.Use D.FF on the MAIN board as a trigger.
(2) Playback the SP stairstep portion of the alignment tape [MHP, MHPE].
(3) Set the neutral manual tracking position by pressing the /// button on the remote controller or TV PROG "-" and "+" buttons simultaneously.
(4) If adjustment is required,slightly loosen screws (4) and (5). Set A/C head positioning tool on the A/C head adjusting boss as indicated in Fig.1-7-6.
(5) Turn the tool first to position the A/C head fully toward the capstan. Then gradually return it toward the drum and stop at the position of maximum FM waveform output level as shown in Fig.1-7-7.
(6) Tighten screw (5). Remove the tool and tighten screw (4).
(7) Eject the SP alighnment tape [MHP, MHPE] and then re-insert the EP or LP alignment tape [MHP-L, MHPE-L].
(8) Playback the EP or LP stairstep portion of the alignment tape [MHP-L, MHPE-L].
(9) Set the neutral manual tracking position by pressing the /// button on the remote controller or TV PROG "-" and "+" buttons simultaneously.
(10) Confirm maximum playback FM waveform output level as shown in Fig.1-7-7.
(11) If not maximum,slightly loosen the screws (4) and (5). Use the tool and adjust the head position for the nearest maximum point. Then tighten screws (4) and (5).

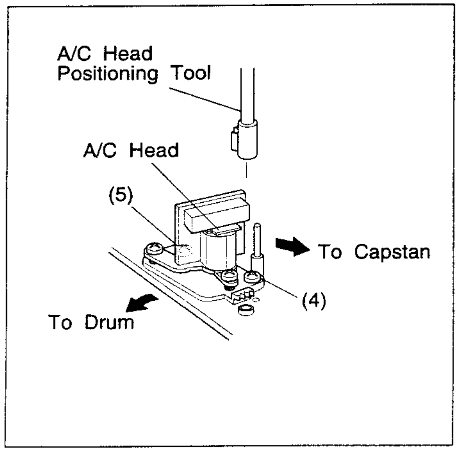

A/C Head
Positioning Tool
A/C Head
(5)
To Capstan
(4)
To Drum

Fig. 1-7-6

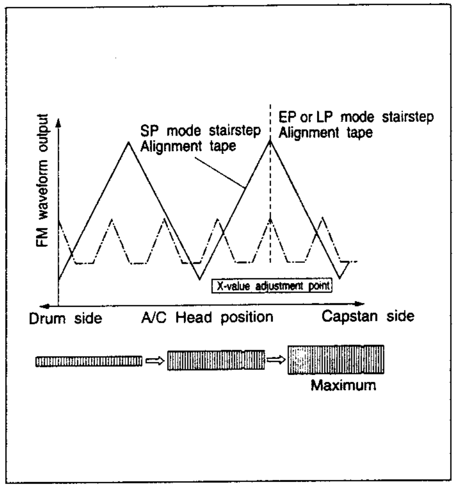


Fig. 1-7-7

1.7.4 Tension pole position

(1) Set for playback mode using MECHANISM SERVICE MODE.
(2) Turn the adjust pin so that the tension arm assembly does not touch ϕ2.5 pole on the outside.
(3) After adjustment,use the back tension cassette gauge and set for the playback mode.
(4) Confirm reading of 29 to 46 g-cm.

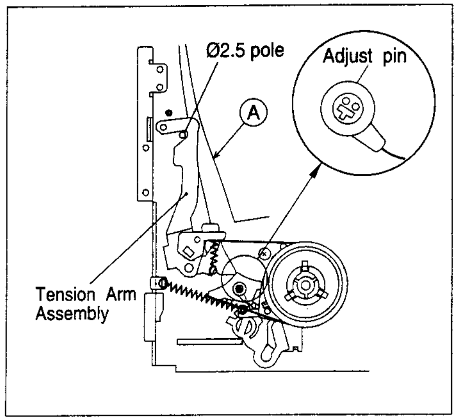

Ø2.5 pole
Adjust pin
A
Tension Arm
Assembly

Fig. 1-7-8

SECTION 2
PARTS LIST

SAFETY PRECAUTION

Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

The mechanism assembly number is composed of several model numbers and the code of the country in which the deck is made in.
The parts of the mechanism assembly differ between the mechanism assembly number, and are not compatible.
Therefore it is necessary to check the mechanism assembly number, and replace parts according to the parts lists which give the corresponding parts.

The following describes how to check the mechanism assembly number.

1. To check the model number.

Read from the three digits from the left of the 9-digit number printed at the part shown in Fig. 2-1 or labeled on a sticker.
Add these three numbers at the *** of PMC00*** to obtain the model number
Consequently, the model number is PMC0011.

Example)
Printed number 11A7011427 → Assembly number PMC0011A

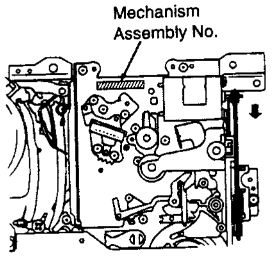

Mechanism
Assembly No.

Fig 2-1

2. To check the production country code

Read the RATING LABEL on the unit to check where it was made in.
If MADE IN JAPAN or MADE IN P.R.C., the production country code is E.
If MADE IN MALAYSIA, the production country code is M.

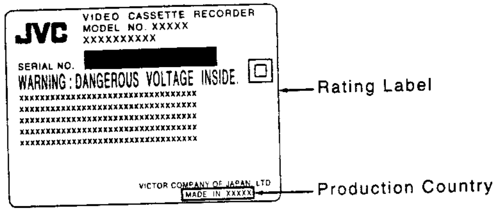

JVC
VIDEO CASSETTE RECORDER
MODEL NO. XXXXX
XXXXXXXXXX
SERIAL NO. [redacted]
WARNING : DANGEROUS VOLTAGE INSIDE.
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
VICTOR COMPANY OF JAPAN, LTD
MADE IN XXXXX
Rating Label
Production Country

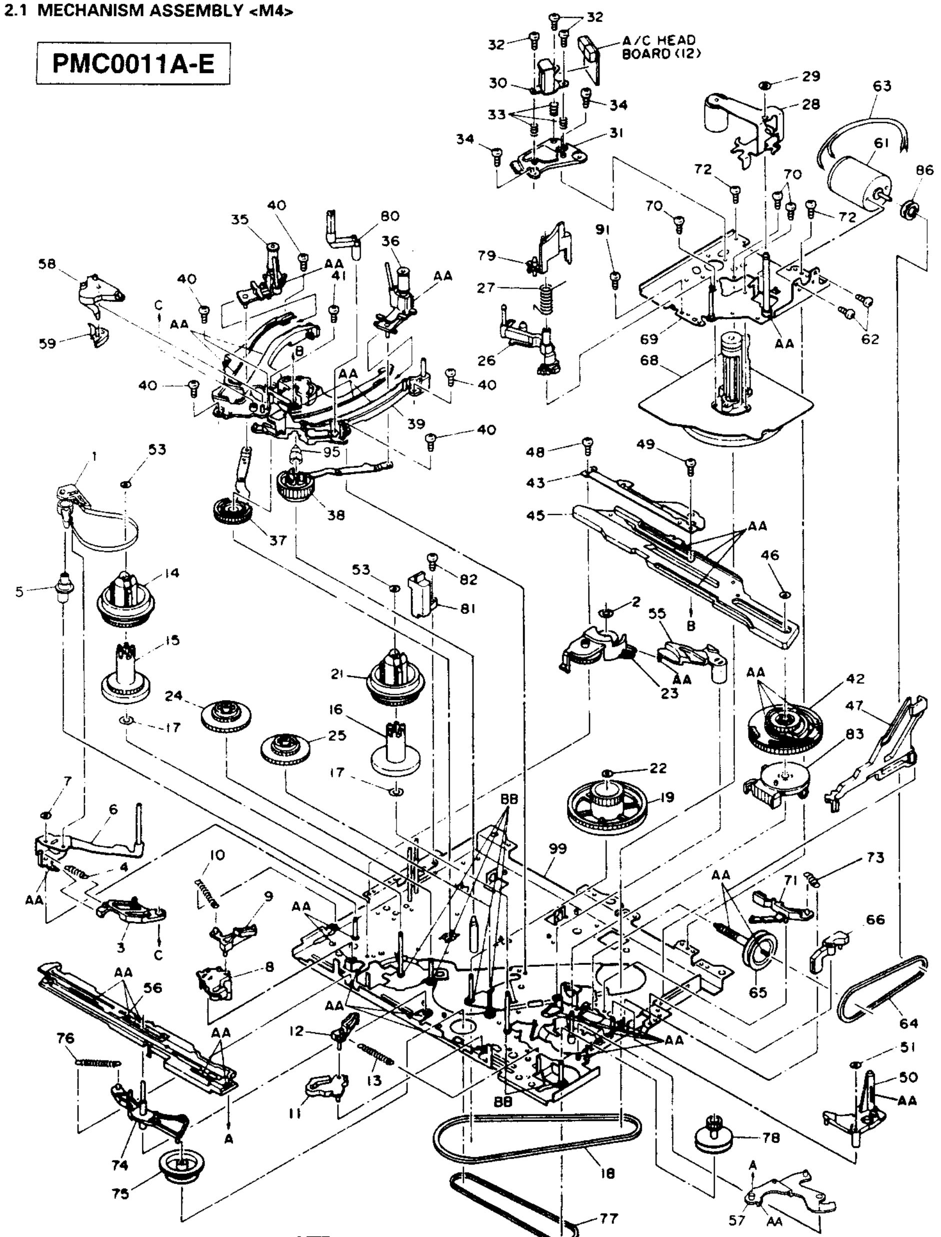
Fig.2-2

3. To check the mechanism assembly number

The mechanism assembly number can be obtained by adding the model number checked at 1, and the production country code checked at 2.
If the model number is PMC0011A and the production country mode is E, the mechanism assembly number is PMC0011A-E.
For the parts number of the parts making up PMC0011A-E, refer to the parts lists on the following pages.

2.1 MECHANISM ASSEMBLY <M4>

PMC0011A-E



Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

PMC0011A-E

MECHANISM ASSEMBLY <M4>

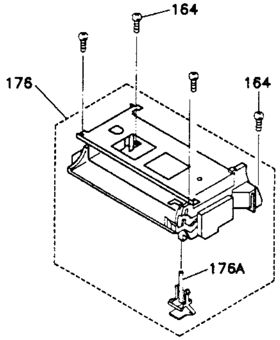
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LP40006-001B	TENSION BAND ASSEMBLY
	2	PQM30017-34	SLIT WASHER
	3	PQ35012-1-5	TENSION ARM LEVER
	4	PQM30001-385109	TENSION SPRING
	5	LP30103-001A	ADJUST PIN
	6	PQ46303B-8	TENSION ARM ASSEMBLY
	7	PQM30017-47	SLIT WASHER
	8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
	9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
	10	PQM30001-393	TENSION SPRING
	11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
	12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
	13	PQM30001-389102	TENSION SPRING
	14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
	15	PQ35436	SLIT DISK (SUPPLY)
	16	PQ35437	SLIT DISK (TAKE UP)
	17	PQM30018-76	SPACER,X2
	18	PQM30003-38	BELT (CAPSTAN)
	19	PQ46497B-2	PULLEY
	21	PQ46562B	REEL ASSEMBLY (TAKE UP)
	22	PQM30018-69	SPACER
	23	PQ46312C-15	IDLER ARM ASSEMBLY
	24	PQ46316D	CLUTCH UNIT (SUPPLY)
	25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
	26	PQ46325D	GUIDE ARM ASSEMBLY
	27	PQ46326-2	TORSION SPRING
	28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
	29	PQM30017-24	SLIT WASHER,P LEVER
	30	PEHE0182	AUDIO CONTROL HEAD
	31	PQ35206-1-3	HEAD BASE
	32	PQ43687A	SCREW,X3
	33	PQM30002-192	COMPRESSION SPRING,X3
	34	SDSP2604Z	SCREW,X2
	35	PQ46595B-5	POLE BASE ASSEMBLY (SUPPLY)
	36	PQ46331C	POLE BASE ASSEMBLY (TAKE UP)
	37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
	38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
	39	PQ11657-1-9	GUIDE RAIL
	40	SPST2608Z	SCREW,X5
	41	SDST2612Z	SCREW
	42	LP20003-001A	CONTROL CAM
	43	PQ35138-3	CONTROL BRACKET
	45	LP10004-001B	CONTROL PLATE
	46	PQM30017-8	SLIT WASHER
	47	PQ21685-2-10	PINCH PLATE
	48	SPST2606Z	SCREW
	49	SPSF2608M	SCREW
	50	PQ46342B-10	LEVER ASSEMBLY
	51	PQM30017-8	SLIT WASHER
	53	PQM30017-47	SLIT WASHER,X2
	55	PQ35026-1-7	IDLER LEVER
	56	PQ11659-1-11	SLIDE PLATE
	57	LP40014-001A	CHANGE LEVER ASSEMBLY
	58	PQ21686-1-3	TAKE UP LEVER
	59	PQ46345-1-2	TAKE UP HEAD
⚠	61	PU60628-3-2	LOADING MOTOR
	62	SPSP3003Z	SCREW,X2
	63	PW30101-80AJ632	WIRE
	64	LP30005-002A	BELT
	65	PQ46395B	WORM GEAR ASSEMBLY
	66	PQ21699-1-2	WORM BEARING
⚠	68	PU61487-2-3	CAPSTAN MOTOR
	69	PQ46347F-16	SUB DECK ASSEMBLY
	70	SPSG2608Z	SCREW,X3
	71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
	72	SPST2606Z	SCREW,X2
	73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
	74	PQ46353A-2	CHANGE ARM ASSEMBLY
	75	PQ46354	CHANGE GEAR
	76	PQM30001-386	TENSION SPRING
	77	PQM30003-40	BELT
	78	LP40008-001A	CASSETTE GEAR
	79	PQ35030-1-5	LID GUIDE
	80	LP20032-001A	LED PRISM
	81	PEHE0237	FULL ERASE HEAD
	82	SDST2610Z	SCREW
	83	PU61432-1-1	ROTARY ENCODER
	86	PQ43546-1-2	MOTOR PULLEY
	91	SDSP2604Z	SCREW
	95	PQ46767-1-2	GUIDE CAP
	99	PQ21680M-23	MAIN DECK ASSEMBLY

AUDIO/CONTROL HEAD BOARD ASSY <12>

REF No.	PART No.	PART NAME, DESCRIPTION
PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

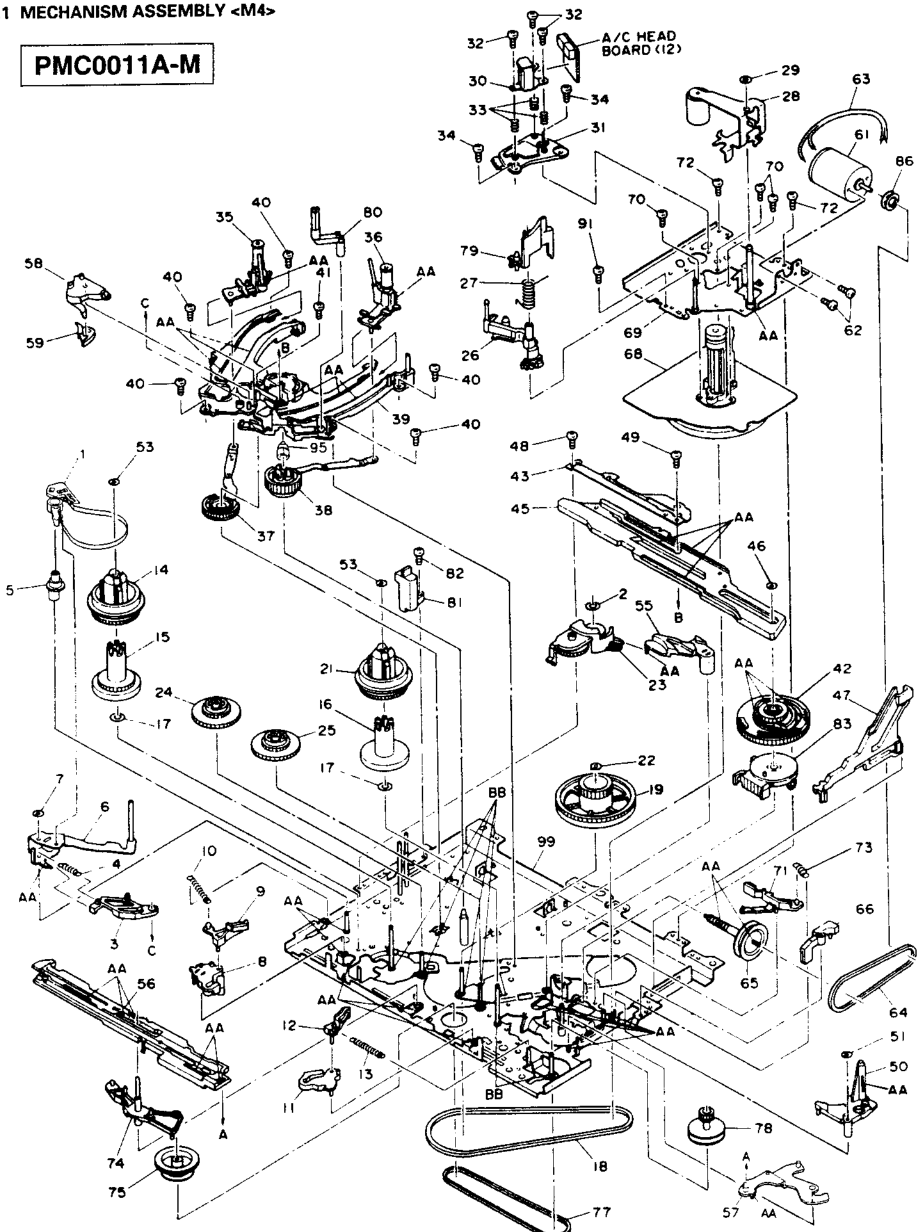
- CASSETTE HOUSING -

REF No.	PART No.	PART NAME, DESCRIPTION
164	SPST2606Z	SCREW, ×2 CASSETTE HOUSING
176	PU29724E	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN



2.1 MECHANISM ASSEMBLY <M4>

PMC0011A-M



Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

PMC0011A-M

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

MECHANISM ASSEMBLY <M4>

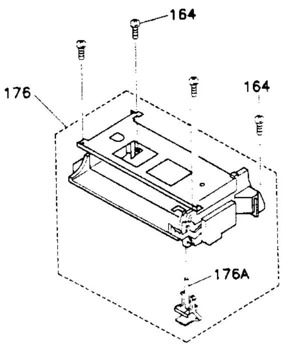
# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LP40006-001B	TENSION BAND ASSEMBLY
	2	PQM30017-34	SLIT WASHER
	3	PQ35012-1-5	TENSION ARM LEVER
	4	PQM30001-385109	TENSION SPRING
	5	LP30103-001A	ADJUST PIN
	6	PQ46303A-8	TENSION ARM ASSEMBLY
	7	PQM30017-47	SLIT WASHER
	8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
	9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
	10	PQM30001-393	TENSION SPRING
	11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
	12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
	13	PQM30001-389102	TENSION SPRING
	14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
	15	PQ35436	SLIT DISK (SUPPLY)
	16	PQ35437	SLIT DISK (TAKE UP)
	17	PQM30018-79	SPACER,X2
	18	PQM30003-38	BELT (CAPSTAN)
	19	PQ46497B-2	PULLEY
	21	PQ46562B	REEL ASSEMBLY (TAKE UP)
	22	PQM30018-69	SPACER
	23	PQ46312C-15	IDLER ARM ASSEMBLY
	24	PQ46316C-6	CLUTCH UNIT (SUPPLY)
	25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
	26	PQ46325C-9	GUIDE ARM ASSEMBLY
	27	PQ46326-2	TORSION SPRING
	28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
	29	PQM30017-24	SLIT WASHER,P LEVER
	30	PEHE0182	AUDIO CONTROL HEAD
	31	PQ35206-1-3	HEAD BASE
	32	PQ43687A	SCREW,X3
	33	PQM30002-192	COMPRESSION SPRING,X3
	34	SDSP2604Z	SCREW,X2
	35	PQ46595B-5	POLE BASE ASSEMBLY (SUPPLY)
	36	PQ46331C	POLE BASE ASSEMBLY (TAKE UP)
	37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
	38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
	39	PQ11657-1-9	GUIDE RAIL
	40	SPST2608Z	SCREW,X5
	41	SDST2612Z	SCREW
	42	LP20003-001A	CONTROL CAM
	43	PQ35138-1-2	CONTROL BRACKET
	45	LP10004-001B	CONTROL PLATE
	46	PQM30017-8	SLIT WASHER
	47	PQ21685-2-10	PINCH PLATE
	48	SPST2606Z	SCREW
	49	SPSF2608M	SCREW
	50	PQ46342D-10	LEVER ASSEMBLY
	51	PQM30017-8	SLIT WASHER
	53	PQM30017-47	SLIT WASHER,X2
	55	PQ35026-1-7	IDLER LEVER
	56	PQ11659-1-14	SLIDE PLATE
	57	LP40014-001A	CHANGE LEVER ASSEMBLY
	58	PQ21686-1-3	TAKE UP LEVER
	59	PQ46345-1-2	TAKE UP HEAD
⚠	61	PU60628-3-2	LOADING MOTOR
	62	SPSP3003Z	SCREW,X2
	63	PW30101-80AJ632	WIRE
	64	LP30005-002A	BELT
	65	PQ46395B	WORM GEAR ASSEMBLY
	66	PQ21699-1-2	WORM BEARING
⚠	68	PU61487-2-3	CAPSTAN MOTOR
	69	PQ46347D	SUB DECK ASSEMBLY
	70	SPSG2608Z	SCREW,X3
	71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
	72	SPST2606Z	SCREW,X2
	73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
	74	PQ46353A-2	CHANGE ARM ASSEMBLY
	75	PQ46354	CHANGE GEAR
	77	PQM30003-40	BELT
	78	LP40008-001A	CASSETTE GEAR
	79	PQ35030-1-5	LID GUIDE
	80	LP20032-001A	LED PRISM
	81	PEHE0237	FULL ERASE HEAD
	82	SDST2610Z	SCREW
	83	PU61432-1-1	ROTARY ENCODER
	86	PQ43546-1-2	MOTOR PULLEY
	91	SDSP2604Z	SCREW
	95	PQ46767-1-2	GUIDE CAP
	99	PQ21680L-23	MAIN DECK ASSEMBLY

AUDIO/CONTROL HEAD BOARD ASSY <12>

REF No.	PART No.	PART NAME, DESCRIPTION
PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

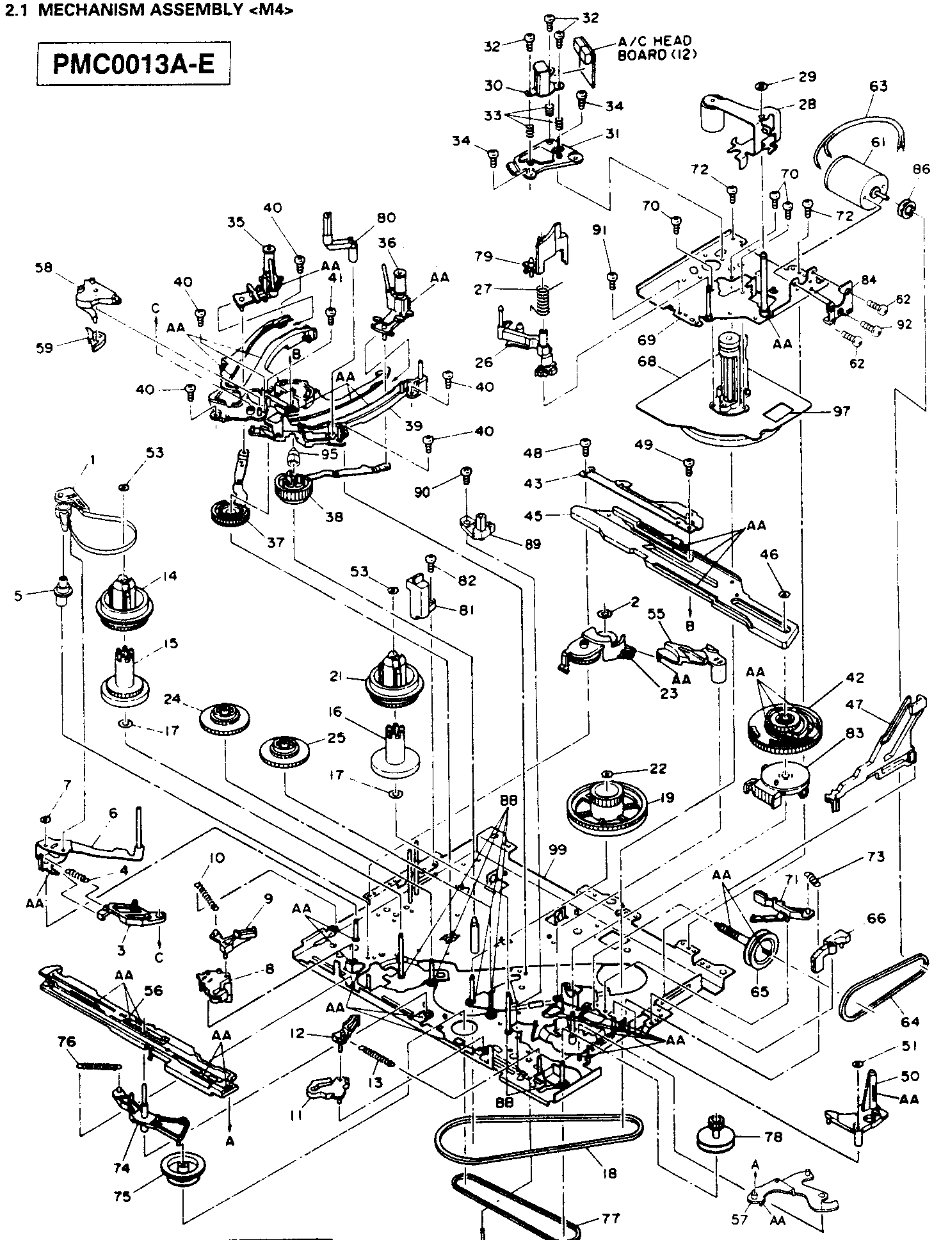
– CASSETTE HOUSING –

REF No.	PART No.	PART NAME, DESCRIPTION
164	SPST2606Z	SCREW, ×2 CASSETTE HOUSING
176	PU29724E	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN



2.1 MECHANISM ASSEMBLY <M4>

PMC0013A-E



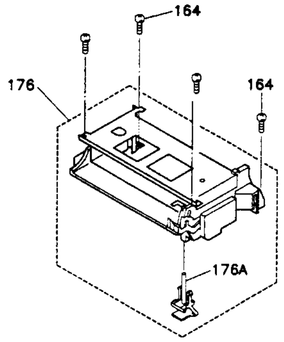
Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

PMC0013A-E

MECHANISM ASSEMBLY <M4>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LP40006-001B	TENSION BAND ASSEMBLY
	2	PQM30017-34	SLIT WASHER
	3	PQ35012-1-5	TENSION ARM LEVER
	4	PQM30001-385109	TENSION SPRING
	5	LP30103-001A	ADJUST PIN
	6	PQ46303B-8	TENSION ARM ASSEMBLY
	7	PQM30017-47	SLIT WASHER
	8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
	9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
	10	PQM30001-393	TENSION SPRING
	11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
	12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
	13	PQM30001-389102	TENSION SPRING
	14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
	15	PQ35436	SLIT DISK (SUPPLY)
	16	PQ35437	SLIT DISK (TAKE UP)
	17	PQM30018-76	SPACER,X2
	18	PQM30003-38	BELT (CAPSTAN)
	19	PQ46497B-2	PULLEY
	21	PQ46562B	REEL ASSEMBLY (TAKE UP)
	22	PQM30018-69	SPACER
	23	PQ46312C-15	IDLER ARM ASSEMBLY
	24	PQ46316D	CLUTCH UNIT (SUPPLY)
	25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
	26	PQ46325D	GUIDE ARM ASSEMBLY
	27	PQ46326-2	TORSION SPRING
	28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
	29	PQM30017-24	SLIT WASHER,P LEVER
	30	PEHE0182	AUDIO CONTROL HEAD
	31	PQ35206-1-3	HEAD BASE
	32	PQ43687A	SCREW,X3
	33	PQM30002-192	COMPRESSION SPRING,X3
	34	SDSP2604Z	SCREW,X2
	35	PQ46330C-10	POLE BASE ASSEMBLY (SUPPLY)
	36	PQ46331D	POLE BASE ASSEMBLY (TAKE UP)
	37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
	38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
	39	PQ11657-1-9	GUIDE RAIL
	40	SPST2608Z	SCREW,X5
	41	SDST2612Z	SCREW
	42	LP20003-001A	CONTROL CAM
	43	PQ35138-3	CONTROL BRACKET
	45	LP10004-001B	CONTROL PLATE
	46	PQM30017-8	SLIT WASHER
	47	PQ21685-2-10	PINCH PLATE
	48	SPST2606Z	SCREW
	49	SPSF2608M	SCREW
	50	PQ46342B-10	LEVER ASSEMBLY
	51	PQM30017-8	SLIT WASHER
	53	PQM30017-47	SLIT WASHER,X2
	55	PQ35026-1-7	IDLER LEVER
	56	PQ11659-1-11	SLIDE PLATE
	57	LP40014-001A	CHANGE LEVER ASSEMBLY
	58	PQ21686-1-3	TAKE UP LEVER
	59	PQ46345-1-2	TAKE UP HEAD
⚠	61	PU60628-3-2	LOADING MOTOR
	62	SPSP3005Z	SCREW,X2
	63	PW30101-80AJ632	WIRE
	64	LP30005-002A	BELT
	65	PQ46395B	WORM GEAR ASSEMBLY
	66	PQ21699-1-2	WORM BEARING
⚠	68	PU61487-2-3	CAPSTAN MOTOR
	69	PQ46347E-16	SUB DECK ASSEMBLY
	70	SPSG2608Z	SCREW,X3
	71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
	72	SPST2606Z	SCREW,X2
	73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
	74	PQ46353A-2	CHANGE ARM ASSEMBLY
	75	PQ46354	CHANGE GEAR
	76	PQM30001-386	TENSION SPRING
	77	PQM30003-40	BELT
	78	LP40008-001A	CASSETTE GEAR
	79	PQ35030-1-5	LID GUIDE
	80	LP20032-001A	LED PRISM
	81	PEHE0237	FULL ERASE HEAD
	82	SDST2610Z	SCREW
	83	PU61432-1-1	ROTARY ENCODER
	84	PQ46568-1-2	MOTOR GUIDE
	86	PQ43546-1-2	MOTOR PULLEY
	88	PQ46473-1-1	S-SW PIN
	89	PQ46474-1-2	S-SW HOLDER
	90	SPST2606Z	SCREW
	91	SDSP2604Z	SCREW
	92	SDSP2604Z	SCREW
	95	PQ46767-1-2	GUIDE CAP
	97	LP30002-013A	SPACER
	99	PQ21680P-23	MAIN DECK ASSEMBLY



AUDIO/CONTROL HEAD BOARD ASSY <12>

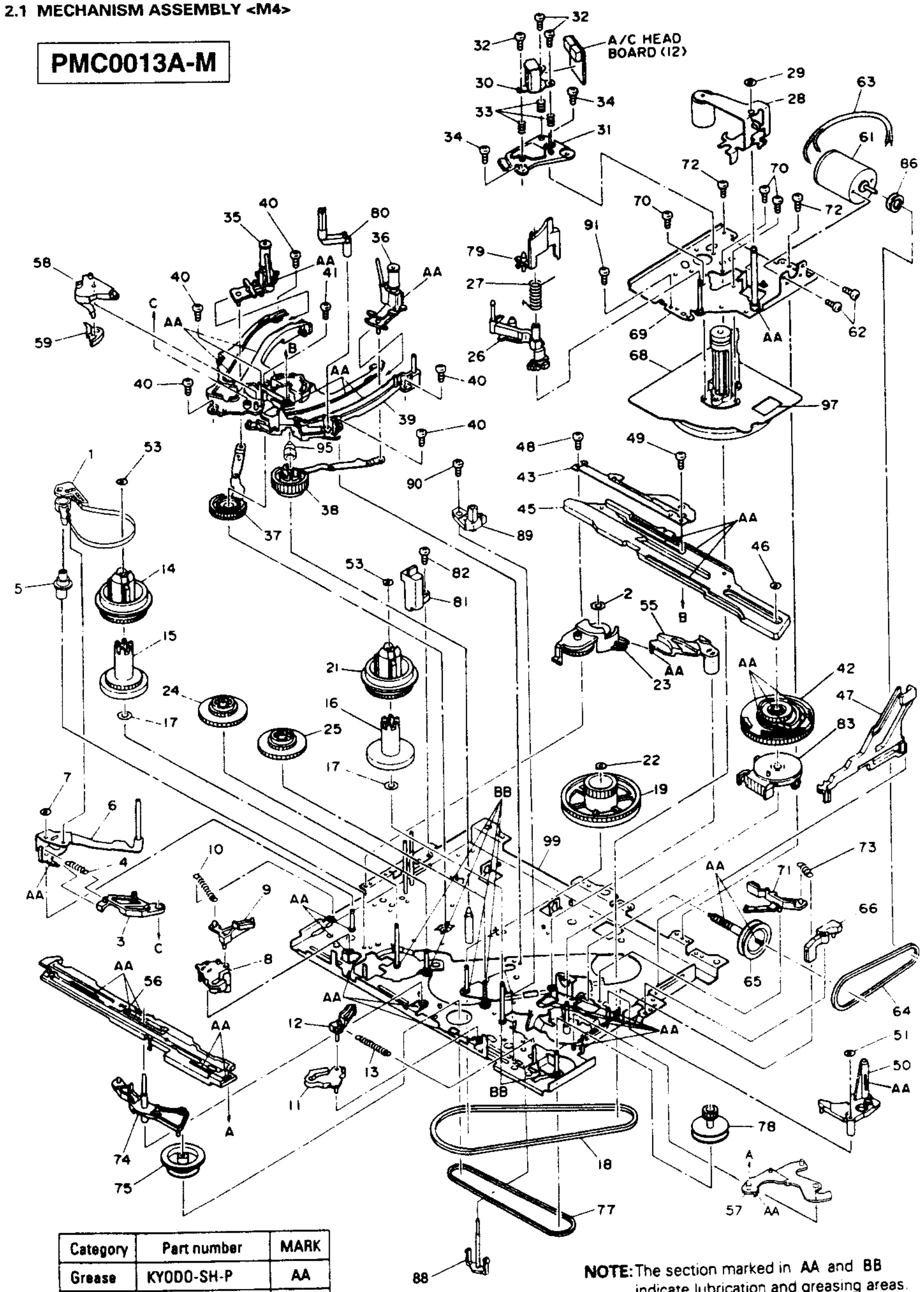
REF No.	PART No.	PART NAME, DESCRIPTION
PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

- CASSETTE HOUSING -

REF No.	PART No.	PART NAME, DESCRIPTION
164	SPST2606Z	SCREW, ×2 CASSETTE HOUSING
176	PU29724F	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN

2.1 MECHANISM ASSEMBLY <M4>

PMC0013A-M



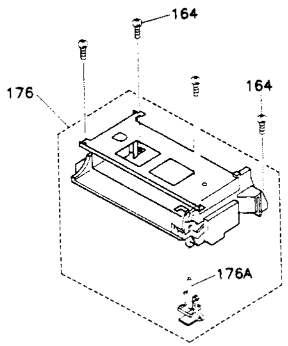
Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

PMC0013A-M

MECHANISM ASSEMBLY <M4>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	LP40006-001B	TENSION BAND ASSEMBLY
2	PQM30017-34	SLIT WASHER
3	PQ35012-1-5	TENSION ARM LEVER
4	PQM30001-385109	TENSION SPRING
5	LP30103-001A	ADJUST PIN
6	PQ46303A-8	TENSION ARM ASSEMBLY
7	PQM30017-47	SLIT WASHER
8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
10	PQM30001-398	TENSION SPRING
11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
13	PQM30001-389102	TENSION SPRING
14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
15	PQ35436	SLIT DISK (SUPPLY)
16	PQ35437	SLIT DISK (TAKE UP)
17	PQM30018-79	SPACER,X2
18	PQM30003-38	BELT (CAPSTAN)
19	PQ46497B-2	PULLEY
21	PQ46562B	REEL ASSEMBLY (TAKE UP)
22	PQM30018-69	SPACER
23	PQ46312C-15	IDLER ARM ASSEMBLY
24	PQ46316C-6	CLUTCH UNIT (SUPPLY)
25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
26	PQ46325C-9	GUIDE ARM ASSEMBLY
27	PQ46326-2	TORSION SPRING
28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
29	PQM30017-24	SLIT WASHER,P LEVER
30	PEHE0182	AUDIO CONTROL HEAD
31	PQ35206-1-3	HEAD BASE
32	PQ43687A	SCREW,X3
33	PQM30002-192	COMPRESSION SPRING,X3
34	SDSP2604Z	SCREW,X2
35	PQ46330C-10	POLE BASE ASSEMBLY (SUPPLY)
36	PQ46331D	POLE BASE ASSEMBLY (TAKE UP)
37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
39	PQ11657-1-9	GUIDE RAIL
40	SPST2608Z	SCREW,X5
41	SDST2612Z	SCREW
42	LP20003-001A	CONTROL CAM
43	PQ35138-1-2	CONTROL BRACKET
45	LP10004-001B	CONTROL PLATE
46	PQM30017-8	SLIT WASHER
47	PQ21685-2-10	PINCH PLATE
48	SPST2606Z	SCREW
49	SPSF2608M	SCREW
50	PQ46342D-10	LEVER ASSEMBLY
51	PQM30017-8	SLIT WASHER
53	PQM30017-47	SLIT WASHER,X2
55	PQ35026-1-7	IDLER LEVER
56	PQ11659-1-14	SLIDE PLATE
57	LP40014-001A	CHANGE LEVER ASSEMBLY
58	PQ21686-1-3	TAKE UP LEVER
59	PQ46345-1-2	TAKE UP HEAD
⚠ 61	PU60628-3-2	LOADING MOTOR
62	SPSP3003Z	SCREW,X2
63	PW30101-80AJ632	WIRE
64	LP30005-002A	BELT
65	PQ46395B	WORM GEAR ASSEMBLY
66	PQ21699-1-2	WORM BEARING
⚠ 68	PU61487-2-3	CAPSTAN MOTOR
69	PQ46347D	SUB DECK ASSEMBLY
70	SPSG2608Z	SCREW,X3
71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
72	SPST2606Z	SCREW,X2
73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
74	PQ46353A-2	CHANGE ARM ASSEMBLY
75	PQ46354	CHANGE GEAR
77	PQM30003-40	BELT
78	LP40008-001A	CASSETTE GEAR
79	PQ35030-1-5	LID GUIDE
80	LP20032-001A	LED PRISM
81	PEHE0237	FULL ERASE HEAD
82	SDST2610Z	SCREW
83	PU61432-1-1	ROTARY ENCODER
86	PQ43546-1-2	MOTOR PULLEY
88	PQ46473-1-1	S-SW PIN
89	PQ46474-1-2	S-SW HOLDER
90	SPST2606Z	SCREW
91	SDSP2604Z	SCREW
95	PQ46767-1-2	GUIDE CAP
97	LP30002-13A	SPACER
99	PQ21680N-23	MAIN DECK ASSEMBLY



AUDIO/CONTROL HEAD BOARD ASSY <12>

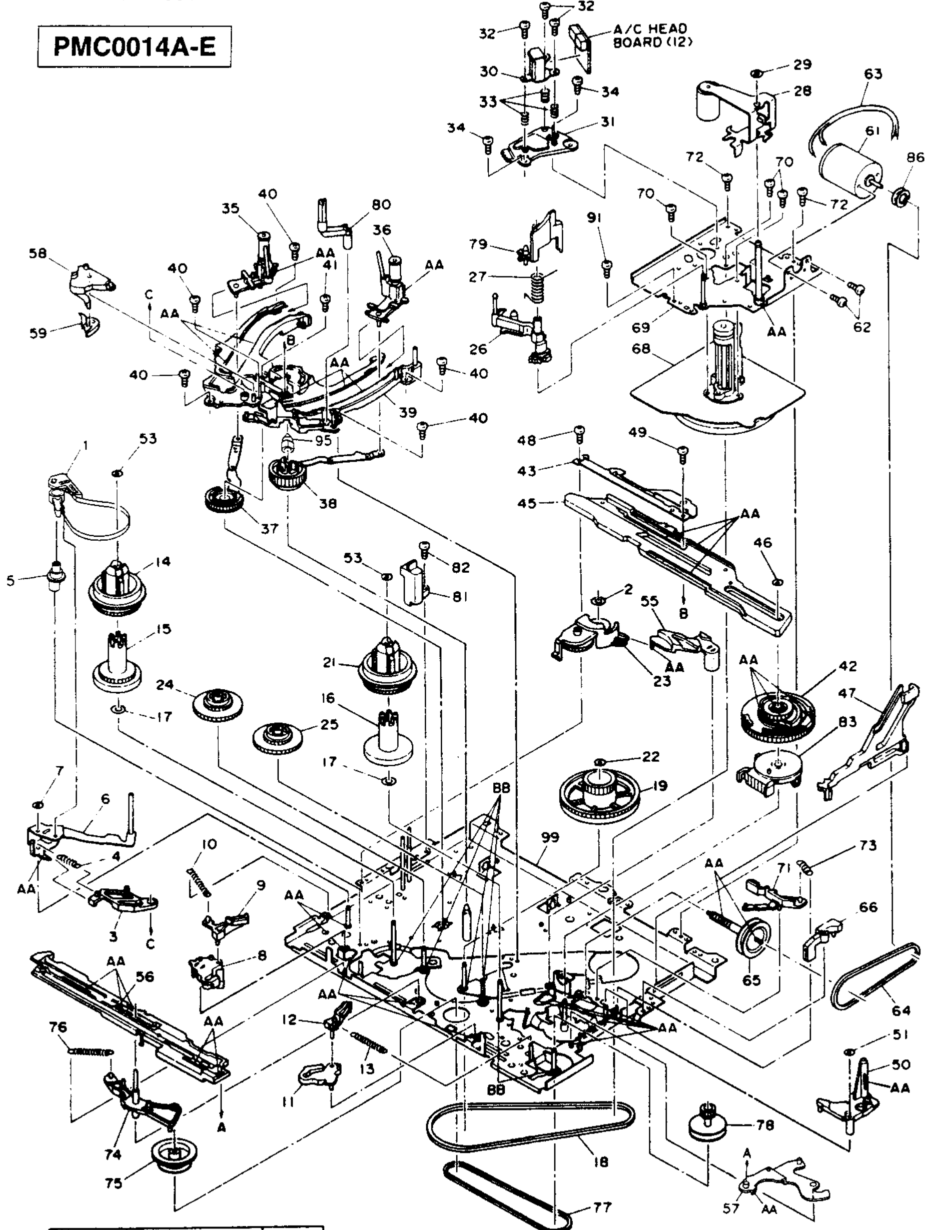
PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

- CASSETTE HOUSING -

164	SPST2606Z	SCREW, x2 CASSETTE HOUSING
176	PU29724F	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN

2.1 MECHANISM ASSEMBLY <M4>

PMC0014A-E



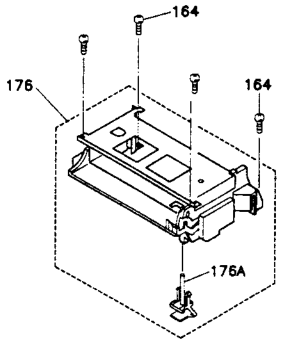
Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

PMC0014A-E

MECHANISM ASSEMBLY <M4>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LP40006-001B	TENSION BAND ASSEMBLY
	2	PQM30017-34	SLIT WASHER
	3	PQ35012-1-5	TENSION ARM LEVER
	4	PQM30001-385109	TENSION SPRING
	5	LP30103-001A	ADJUST PIN
	6	PQ46303B-8	TENSION ARM ASSEMBLY
	7	PQM30017-47	SLIT WASHER
	8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
	9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
	10	PQM30001-393	TENSION SPRING
	11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
	12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
	13	PQM30001-389102	TENSION SPRING
	14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
	15	PQ35436	SLIT DISK (SUPPLY)
	16	PQ35437	SLIT DISK (TAKE UP)
	17	PQM30018-76	SPACER,X2
	18	PQM30003-38	BELT (CAPSTAN)
	19	PQ46497B-2	PULLEY
	21	PQ46562B	REEL ASSEMBLY (TAKE UP)
	22	PQM30018-69	SPACER
	23	PQ46312C-15	IDLER ARM ASSEMBLY
	24	PQ46316D	CLUTCH UNIT (SUPPLY)
	25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
	26	PQ46325D	GUIDE ARM ASSEMBLY
	27	PQ46326-2	TORSION SPRING
	28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
	29	PQM30017-24	SLIT WASHER,P LEVER
	30	PEHE0182	AUDIO CONTROL HEAD
	31	PQ35206-1-3	HEAD BASE
	32	PQ43687A	SCREW,X3
	33	PQM30002-192	COMPRESSION SPRING,X3
	34	SDSP2604Z	SCREW,X2
	35	PQ46595B-5	POLE BASE ASSEMBLY (SUPPLY)
	36	PQ46331C	POLE BASE ASSEMBLY (TAKE UP)
	37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
	38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
	39	PQ11657-1-9	GUIDE RAIL
	40	SPST2608Z	SCREW,X5
	41	SDST2612Z	SCREW
	42	LP20003-001A	CONTROL CAM
	43	PQ35138-3	CONTROL BRACKET
	45	LP10004-001B	CONTROL PLATE
	46	PQM30017-8	SLIT WASHER
	47	PQ21685-2-10	PINCH PLATE
	48	SPST2606Z	SCREW
	49	SPSF2608M	SCREW
	50	PQ46342B-10	LEVER ASSEMBLY
	51	PQM30017-8	SLIT WASHER
	53	PQM30017-47	SLIT WASHER,X2
	55	PQ35026-1-7	IDLER LEVER
	56	PQ11659-1-11	SLIDE PLATE
	57	LP40014-001A	CHANGE LEVER ASSEMBLY
	58	PQ21686-1-3	TAKE UP LEVER
	59	PQ46345-1-2	TAKE UP HEAD
⚠	61	PU60628-3-2	LOADING MOTOR
	62	SPSP3003Z	SCREW,X2
	63	PW30101-80AJ632	WIRE
	64	LP30005-002A	BELT
	65	PQ46395B	WORM GEAR ASSEMBLY
	66	PQ21699-1-2	WORM BEARING
⚠	68	PU61487-2-3	CAPSTAN MOTOR
	69	PQ46347F-16	SUB DECK ASSEMBLY
	70	SPSG2608Z	SCREW,X3
	71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
	72	SPST2606Z	SCREW,X2
	73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
	74	PQ46353A-2	CHANGE ARM ASSEMBLY
	75	PQ46354	CHANGE GEAR
	76	PQM30001-386	TENSION SPRING
	77	PQM30003-40	BELT
	78	LP40008-001A	CASSETTE GEAR
	79	PQ35030-1-5	LID GUIDE
	80	LP20032-001A	LED PRISM
	81	PEHE0237	FULL ERASE HEAD
	82	SDST2610Z	SCREW
	83	PU61432-1-1	ROTARY ENCODER
	86	PQ43546-1-2	MOTOR PULLEY
	91	SDSP2604Z	SCREW
	95	PQ46767-1-2	GUIDE CAP
	99	PQ21680M-23	MAIN DECK ASSEMBLY



AUDIO/CONTROL HEAD BOARD ASSY <12>

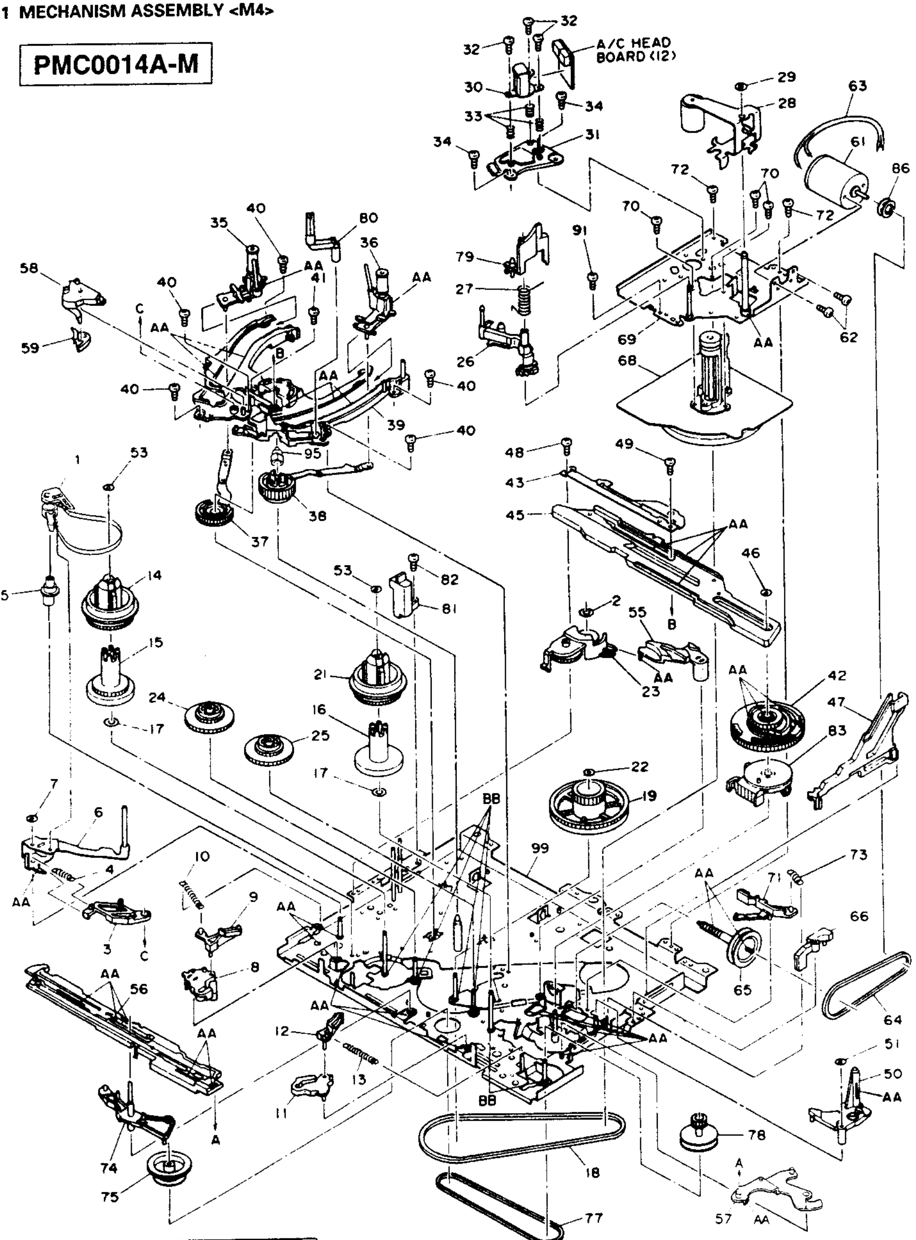
REF No.	PART No.	PART NAME, DESCRIPTION
PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

- CASSETTE HOUSING -

REF No.	PART No.	PART NAME, DESCRIPTION
164	SPST2606Z	SCREW, x2 CASSETTE HOUSING
176	PU29724F	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN

2.1 MECHANISM ASSEMBLY <M4>

PMC0014A-M



Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

PMC0014A-M

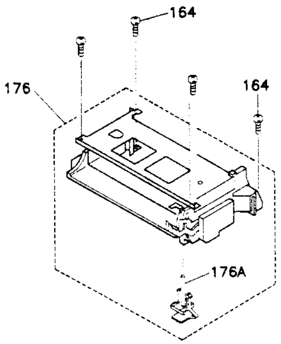
MECHANISM ASSEMBLY <M4>

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION
	1	LP40006-001B	TENSION BAND ASSEMBLY
	2	PQM30017-34	SLIT WASHER
	3	PQ35012-1-5	TENSION ARM LEVER
	4	PQM30001-385109	TENSION SPRING
	5	LP30103-001A	ADJUST PIN
	6	PQ46303A-8	TENSION ARM ASSEMBLY
	7	PQM30017-47	SLIT WASHER
	8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
	9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
	10	PQM30001-393	TENSION SPRING
	11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
	12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
	13	PQM30001-389102	TENSION SPRING
	14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
	15	PQ35436	SLIT DISK (SUPPLY)
	16	PQ35437	SLIT DISK (TAKE UP)
	17	PQM30018-79	SPACER,X2
	18	PQM30003-38	BELT (CAPSTAN)
	19	PQ46497B-2	PULLEY
	21	PQ46562B	REEL ASSEMBLY (TAKE UP)
	22	PQM30018-69	SPACER
	23	PQ46312C-15	IDLER ARM ASSEMBLY
	24	PQ46316C-6	CLUTCH UNIT (SUPPLY)
	25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
	26	PQ46325C-9	GUIDE ARM ASSEMBLY
	27	PQ46326-2	TORSION SPRING
	28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
	29	PQM30017-24	SLIT WASHER,P LEVER
	30	PEHE0182	AUDIO CONTROL HEAD
	31	PQ35206-1-3	HEAD BASE
	32	PQ43687A	SCREW,X3
	33	PQM30002-192	COMPRESSION SPRING,X3
	34	SDSP2604Z	SCREW,X2
	35	PQ46595B-5	POLE BASE ASSEMBLY (SUPPLY)
	36	PQ46331C	POLE BASE ASSEMBLY (TAKE UP)
	37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
	38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
	39	PQ11657-1-9	GUIDE RAIL
	40	SPST2608Z	SCREW,X5
	41	SDST2612Z	SCREW
	42	LP20003-001A	CONTROL CAM
	43	PQ35138-1-2	CONTROL BRACKET
	45	LP10004-001B	CONTROL PLATE
	46	PQM30017-8	SLIT WASHER
	47	PQ21685-2-10	PINCH PLATE
	48	SPST2606Z	SCREW
	49	SPSF2608M	SCREW
	50	PQ46342D-10	LEVER ASSEMBLY
	51	PQM30017-8	SLIT WASHER
	53	PQM30017-47	SLIT WASHER,X2
	55	PQ35026-1-7	IDLER LEVER
	56	PQ11659-1-14	SLIDE PLATE
	57	LP40014-001A	CHANGE LEVER ASSEMBLY
	58	PQ21686-1-3	TAKE UP LEVER
	59	PQ46345-1-2	TAKE UP HEAD
⚠	61	PU60628-3-2	LOADING MOTOR
	62	SPSP3003Z	SCREW,X2
	63	PW30101-80AJ632	WIRE
	64	LP30005-002A	BELT
	65	PQ46395B	WORM GEAR ASSEMBLY
	66	PQ21699-1-2	WORM BEARING
⚠	68	PU61487-2-3	CAPSTAN MOTOR
	69	PQ46347D	SUB DECK ASSEMBLY
	70	SPSG2608Z	SCREW,X3
	71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
	72	SPST2606Z	SCREW,X2
	73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
	74	PQ46353A-2	CHANGE ARM ASSEMBLY
	75	PQ46354	CHANGE GEAR
	77	PQM30003-40	BELT
	78	LP40008-001A	CASSETTE GEAR
	79	PQ35030-1-5	LID GUIDE
	80	LP20032-001A	LED PRISM
	81	PEHE0237	FULL ERASE HEAD
	82	SDST2610Z	SCREW
	83	PU61432-1-1	ROTARY ENCODER
	86	PQ43546-1-2	MOTOR PULLEY
	91	SDSP2604Z	SCREW
	95	PQ46767-1-2	GUIDE CAP
	99	PQ21680L-23	MAIN DECK ASSEMBLY

AUDIO/CONTROL HEAD BOARD ASSY <12>

PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

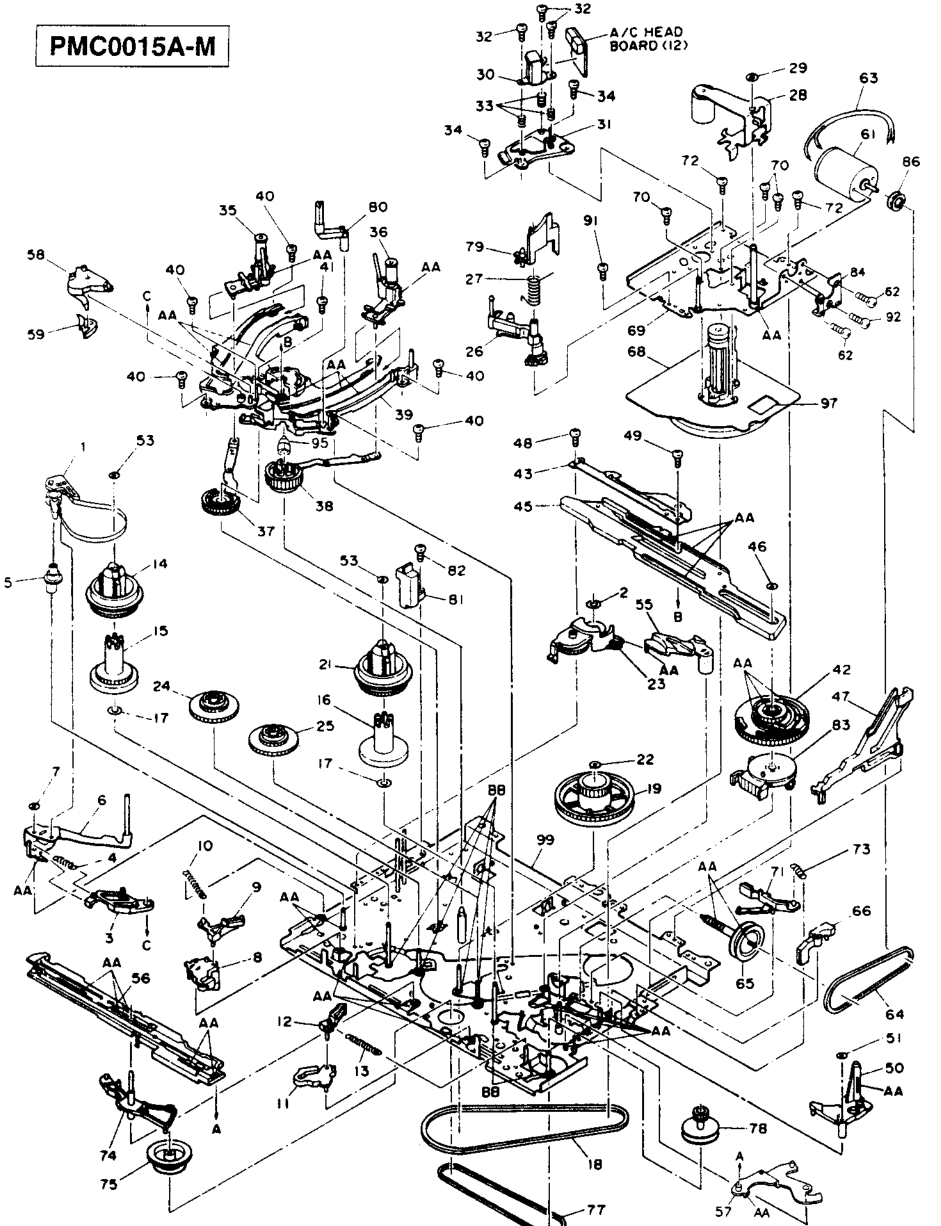
– CASSETTE HOUSING –



164	SPST2606Z	SCREW, x2 CASSETTE HOUSING
176	PU29724F	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN

2.1 MECHANISM ASSEMBLY <M4>

PMC0015A-M



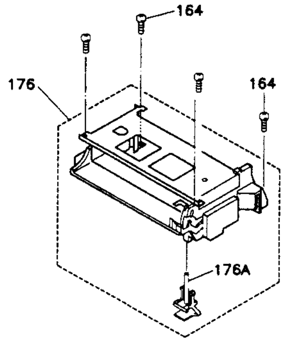
Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

PMC0015A-M

MECHANISM ASSEMBLY <M4>

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	LP40006-001B	TENSION BAND ASSEMBLY
2	PQM30017-34	SLIT WASHER
3	PQ35012-1-5	TENSION ARM LEVER
4	PQM30001-385109	TENSION SPRING
5	LP30103-001A	ADJUST PIN
6	PQ46303A-8	TENSION ARM ASSEMBLY
7	PQM30017-47	SLIT WASHER
8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
9	PQ46306A-6	SUB BRAKE ASSEMBLY (SUPPLY)
10	PQM30001-393	TENSION SPRING
11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
13	PQM30001-389102	TENSION SPRING
14	PQ46561B	REEL DISK ASSEMBLY (SUPPLY)
15	PQ35436	SLIT DISK (SUPPLY)
16	PQ35437	SLIT DISK (TAKE UP)
17	PQM30018-79	SPACER,X2
18	PQM30003-38	BELT (CAPSTAN)
19	PQ46497B-2	PULLEY
21	PQ46562B	REEL ASSEMBLY (TAKE UP)
22	PQM30018-69	SPACER
23	PQ46312C-15	IDLER ARM ASSEMBLY
24	PQ46316C-6	CLUTCH UNIT (SUPPLY)
25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
26	PQ46325C-9	GUIDE ARM ASSEMBLY
27	PQ46326-2	TORSION SPRING
28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
29	PQM30017-24	SLIT WASHER,P LEVER
30	PEHE0182	AUDIO CONTROL HEAD
31	PQ35206-1-3	HEAD BASE
32	PQ43687A	SCREW,X3
33	PQM30002-192	COMPRESSION SPRING,X3
34	SDSP2604Z	SCREW,X2
35	PQ46330C-10	POLE BASE ASSEMBLY (SUPPLY)
36	PQ46331D	POLE BASE ASSEMBLY (TAKE UP)
37	PQ46332B-3	LOADING ARM ASSEMBLY (SUPPLY)
38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
39	PQ11657-1-9	GUIDE RAIL
40	SPST2608Z	SCREW,X5
41	SDST2612Z	SCREW
42	LP20003-001A	CONTROL CAM
43	PQ35138-1-2	CONTROL BRACKET
45	LP10004-001B	CONTROL PLATE
46	PQM30017-8	SLIT WASHER
47	PQ21685-2-10	PINCH PLATE
48	SPST2606Z	SCREW
49	SPSF2608M	SCREW
50	PQ46342D-10	LEVER ASSEMBLY
51	PQM30017-8	SLIT WASHER
53	PQM30017-47	SLIT WASHER,X2
55	PQ35026-1-7	IDLER LEVER
56	PQ11659-1-14	SLIDE PLATE
57	LP40014-001A	CHANGE LEVER ASSEMBLY
58	PQ21686-1-3	TAKE UP LEVER
59	PQ46345-1-2	TAKE UP HEAD
⚠ 61	PU60628-3-2	LOADING MOTOR
62	SPSP3005Z	SCREW,X2
63	PW30101-80AJ632	WIRE
64	LP30005-002A	BELT
65	PQ46395B	WORM GEAR ASSEMBLY
66	PQ21699-1-2	WORM BEARING
⚠ 68	PU61487-2-3	CAPSTAN MOTOR
69	PQ46347G	SUB DECK ASSEMBLY
70	SPSG2608Z	SCREW,X3
71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
72	SPST2606Z	SCREW,X2
73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
74	PQ46353A-2	CHANGE ARM ASSEMBLY
75	PQ46354	CHANGE GEAR
77	PQM30003-40	BELT
78	LP40008-001A	CASSETTE GEAR
79	PQ35030-1-5	LID GUIDE
80	LP20032-001A	LED PRISM
81	PEHE0237	FULL ERASE HEAD
82	SDST2610Z	SCREW
83	PU61432-1-1	ROTARY ENCODER
84	PQ46568-1-2	MOTOR GUIDE
86	PQ43546-1-2	MOTOR PULLEY
91	SDSP2604Z	SCREW
92	SDSP2604Z	SCREW
95	PQ46767-1-2	GUIDE CAP
97	LP30002-013A	SPACER
99	PQ21680N-23	MAIN DECK ASSEMBLY



AUDIO/CONTROL HEAD BOARD ASSY <12>

PW1	PB10916A-04	A/CTL HEAD BOARD ASSEMBLY
CN1	PU60910-107	CONNECTOR,(1-7)MAIN

– CASSETTE HOUSING –

164	SPST2606Z	SCREW, ×2 CASSETTE HOUSING
176	PU29724F	CASSETTE HOUSING ASSY
176A	PQ46359	CASSETTE SWITCH PIN

E. & O.E. No.82595